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IN FOCUS



BUK 9K37M1 MISSILE SYSTEM

SHAROTANK HAVING A BALL

MARCH 2019

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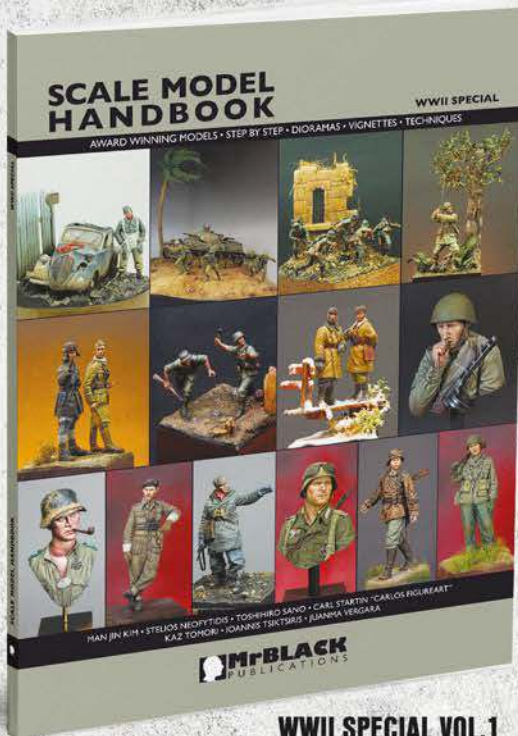


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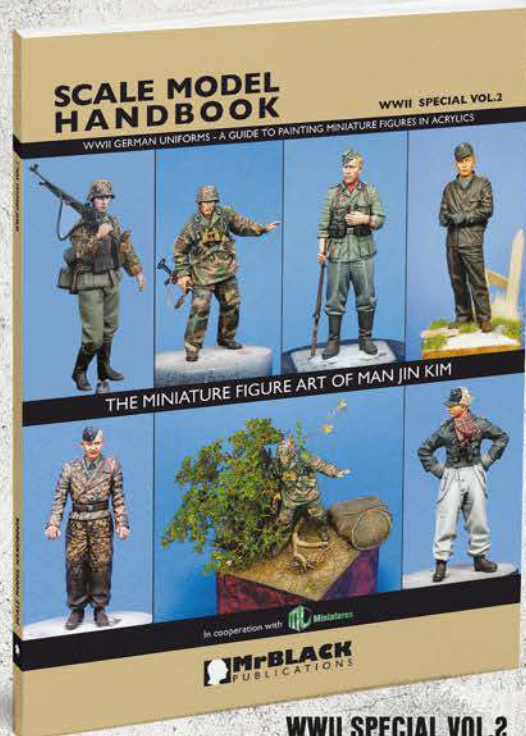


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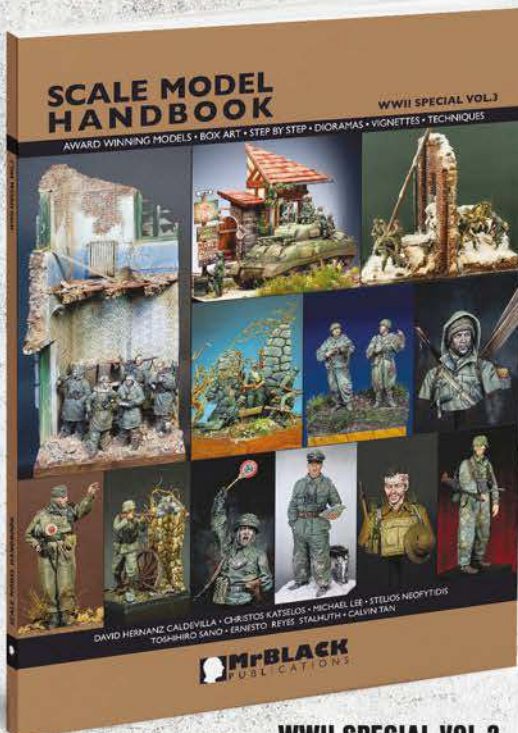
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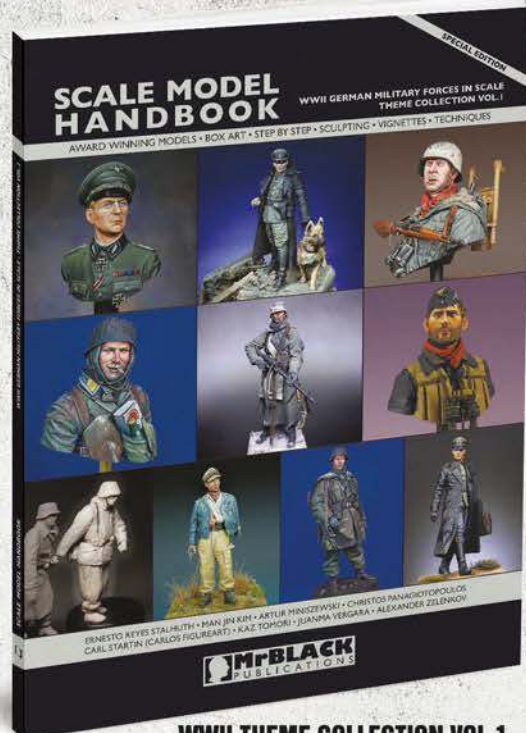
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FRIULMODEL

TYPE 95 "HA-GO"



ATL-151



195 links in 1/35 th scale and
a wire to obtain the track pivots.

ARIETE "Italian Tank"



ATL-152



195 links in 1/35 th scale
and a wire to obtain the track pivots.

2S6 TUNGUSKA



ATL-153



225 links in 1/35 th scale and
a wire to obtain the track pivots.



Friulmodel - 8142 Erhids,
Velejte u. 2, Hungary
www.friulmodel.com

**LÖWE / BÄR
Pz VK 72.01 (K)**



ATL-154



224 links in 1/35 th scale
and a wire to obtain the track pivots.

**ABRAMS M1A1 / M1A2
track type T158**



ATL-155



160 links in 1/35 th scale
and a wire to obtain the track pivots.

**M46 / M47 PATTON /
M26 PERSHING
track type T84E1**



ATL-156



175 links in 1/35 th scale
and a wire to obtain the track pivots.

PANZERHAUBITZE 2000



ATL-157



185 links in 1/35 th scale
and a wire to obtain the track pivots.

**LEOPARD 1
Vorserie/Prototype
(German track)**



ATL-158



180 links, two sprocket wheels in 1/35 th scale
and a wire to obtain the track pivots.

LEOPARD 2



ATL-159



180 links in 1/35 th scale
and a wire to obtain the track pivots.

**MARK V
(26 1/4 inch - 67.31 cm
wide track)**



ATL-160



180 links, two sprocket wheels, two idler wheels
in 1/35 th scale and a wire to obtain the track pivots.

D9R bulldozer



ATL-161



90 links in 1/35 th scale.

MAUS



ATL-162



440 links in 1/35 th scale and
a wire to obtain the track pivots.

**CHALLENGER 2
early type track**



ATL-163

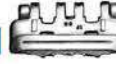


160 links in 1/35 th scale and
a wire to obtain the track pivots.

**CHURCHILL
early type track**



ATL-164



146 links in 1/35 th scale and
a wire to obtain the track pivots.

**Sd.Kfz. 8 12t
Late type track**



ATL-165



110 links in 1/35 th scale.

**JAGDPANZER E-10
Late type track**



ATL-166



294 links in 1/35 th scale and
a wire to obtain the track pivots.

**GRANT/LEE/RAM
Type WE210 double I track**



ATL-167



168 links in 1/35 th scale and
a wire to obtain the track pivots.

French R 35



ATL-168



255 links in 1/35 th scale and
a wire to obtain the track pivots.

**Sd.Kfz. 8 12t
early type track**



ATL-169



110 links in 1/35 th scale.

T-10 M



ATL-170



172 links in 1/35 th scale and
a wire to obtain the track pivots.

**MAGACH 6B GAL BATASH /
ACHZARIT late/MERKAVA Mk.2D
MERKAVA Mk.2 recent use-standard.**



ATL-171



210 links in 1/35 th scale
and a wire to obtain the track pivots.

CONQUEROR



ATL-172



196 links in 1/35 th scale
and a wire to obtain the track pivots.

MBT-70 / Kpz.70



ATL-173



160 links in 1/35 th scale
and a wire to obtain the track pivots.

T-14 ARMATA



ATL-174



194 links in 1/35 th scale
and a wire to obtain the track pivots.

**M24 CHAFFEE
T85E1
(rubber type)**



ATL-175



170 links in 1/35 th scale and
a wire to obtain the track pivots.



EDITORIAL

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SCALE
Military
MODELLER International



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IT'S ALWAYS GREAT TO WELCOME
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TEAM, AND TO SHARE THEIR
EXCELLENT MODELS WITH YOU.

New faces and new ideas always refresh
the magazines content, and this month I
am privileged to welcome on
board Marc Elsoght, Michael
Franz, and Luigi Graffi to our
pages, and we will have more
new contributors coming in
over the next few months! I
am also pleased to have Dawid
Branski in SMMI. Dawid is a
keen aircraft modeller and is a
regular contributor to Model
Aircraft Magazine, but I'm sure
you will agree, his Humvee
diorama is quite excellent. Also, it nice to
have something a little out of the ordinary
this month as Iwan Hughes bring the weird
and wonderful MiniArt Sharotank, in his
'Having a Ball' feature'. Also, Robin Gilby
guides us around last year's Scale Model
Challenge show, and our Tank World



Happy Modelling

Andy Evans
Editor



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Urban Patrol





PAPER PANZER

Scale 1:35 / Night Hunter

Fictional Night Hunter ⚡⚡

MARC ELSOCHT BUILDS A FICTION DIORAMA BASED ON THE 1964 BLACK AND WHITE FICTIONAL FILM 'IT HAPPENED HERE', AND ALTERNATIVE WORLD WAR II HISTORY WHERE THE UK HAD BEEN INVADED BY GERMANY

Creative Freedom

AMUSING HOBBY

IN THE CONTEXT OF THIS 'FICTION' I WANTED TO BUILD A 'PAPER PANZER' VERSION OF THE PANTHER, WHICH allowed me a certain freedom of interpretation. For this project I chose the Amusing Hobby kit of 2017, which offers the choice between two turrets, one developed by Daimler-



Benz or one developed by Krupp. My aim was to show a seasoned 'Night Panther' ready to face US troops who had just landed to liberate the UK and was complete with IR systems and an improvised night camouflage. So, let's get started. [Amusing Hobby](#)



SCALE MILITARY MODELLER INTERNATIONAL



CONSTRUCTION

The very first steps are devoted to the suspension, wheels and running gear

It Happened Here!

The story of 'Hitler's England' is a black-and white 1964 British World War II film. It Happened Here shows an alternative history where the United Kingdom has been invaded and occupied by Nazi Germany. The plot follows the experiences of an Irish nurse working in England, who encounters people who believe collaboration with the invaders is for the best whilst others are involved in the resistance movement against the occupiers and their local collaborators.



Panther II

Manufacturer: Amusing Hobby

Scale: 1:35

Kit Type: Plastic injection moulded with etch

Kit Number: 35A018

Friul Model Tracks #ATL-21

Royal Model Panther Exhaust Mufflers
#RM050

Bronco German Infrared Night-Vision Devices
#AB3577

ET Model Infrared-Scheinwerfer Type 1
#ER35-034

Alpine Miniatures Figures

FOR THIS
PROJECT
I CHOSE
AMUSING
HOBBY KIT OF
2017



PAPER PANZER

Scale 1:35 / Night Hunter



The rear deck with etched details and tools added



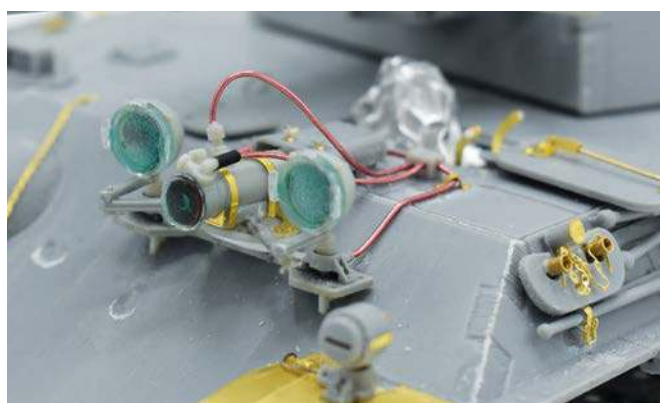
The front end also benefitted from some etched details and new fenders



The exhaust pipes were replaced by resin exhaust mufflers from Royal Model and the right rear storage box has been replaced by one from ET Model and used to house the infrared system



As my goal was to make a night fighter, the major improvement was the installation of three infrared systems....



...with one to help driving in the dark



More etch being added along with a tow cable

Here is the completed build, ready to paint



SCALE MILITARY MODELLER INTERNATIONAL

PAINTING



Chips were added using a piece of sponge and a mix of Black and some Red Brown

MY AIM WAS TO CREATE A RATHER EXOTIC CAMOUFLAGE SCHEME, THIS BEING DISRUPTIVE AT THE front, and on top of the classic two-tone pattern. I began with a coat of A.MIG-011 Dunkelgeb #1, airbrushed over White Primer with some highlights applied with A.MIG-012 Dunkelgeb #2. Then after applying a Matt coat the basic camouflage pattern was created using Ammo by MIG Masking Putty. Then A.MIG-001 Olivgrun was airbrushed on. The result was a guideline for

more airbrushing rework and fine tuning. I then proceeded with the night camouflage. Some parts are painted with A.MIG-014 Rotbraun, like the interior of the hatches and a replacement wheel, and I also a slightly faded Dunkelgeb filter. I then did some very careful masking and added Black to form the specific angular pattern on the turret, the sides and the front of the tank. Then Ammo by MIG Dark Brown and Medium Brown washes were applied, followed by some blending and retouching as necessary.



Scratches were added to places they would most likely be seen



Shadows were increased around the hatches and other areas



Streaks were also added, but this was a little restrained



The exhausts were suitably rusted



Fuel and lubricant stains were added on the engine deck



I used a set of Friul Model Tracks for added detail





PAPER PANZER

Scale 1:35 / Night Hunter

DIORAMA

The base was a Styrofoam and Balsa wood construction.....



....like a post box



SCALE MILITARY MODELLER INTERNATIONAL





NIGHT HUNTER

Paper Panzer



...to which I added groundwork,
and some smaller details....





PAPER PANZER

Scale 1:35 / Night Hunter





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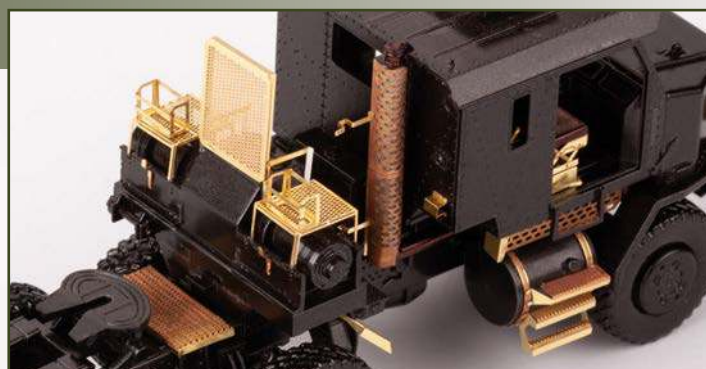


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ANDY RENSHAW SHOWS YOU HOW TO DETAIL THE
1:35 ACADEMY OPERATION IRAQI FREEDOM M2A2
WITH LEGEND AND EDUARD ACCESSORIES

M2A2 Operation Iraqi Freedom

Manufacturer: Academy

Scale: 1:35

Kit Type: Plastic injection moulded

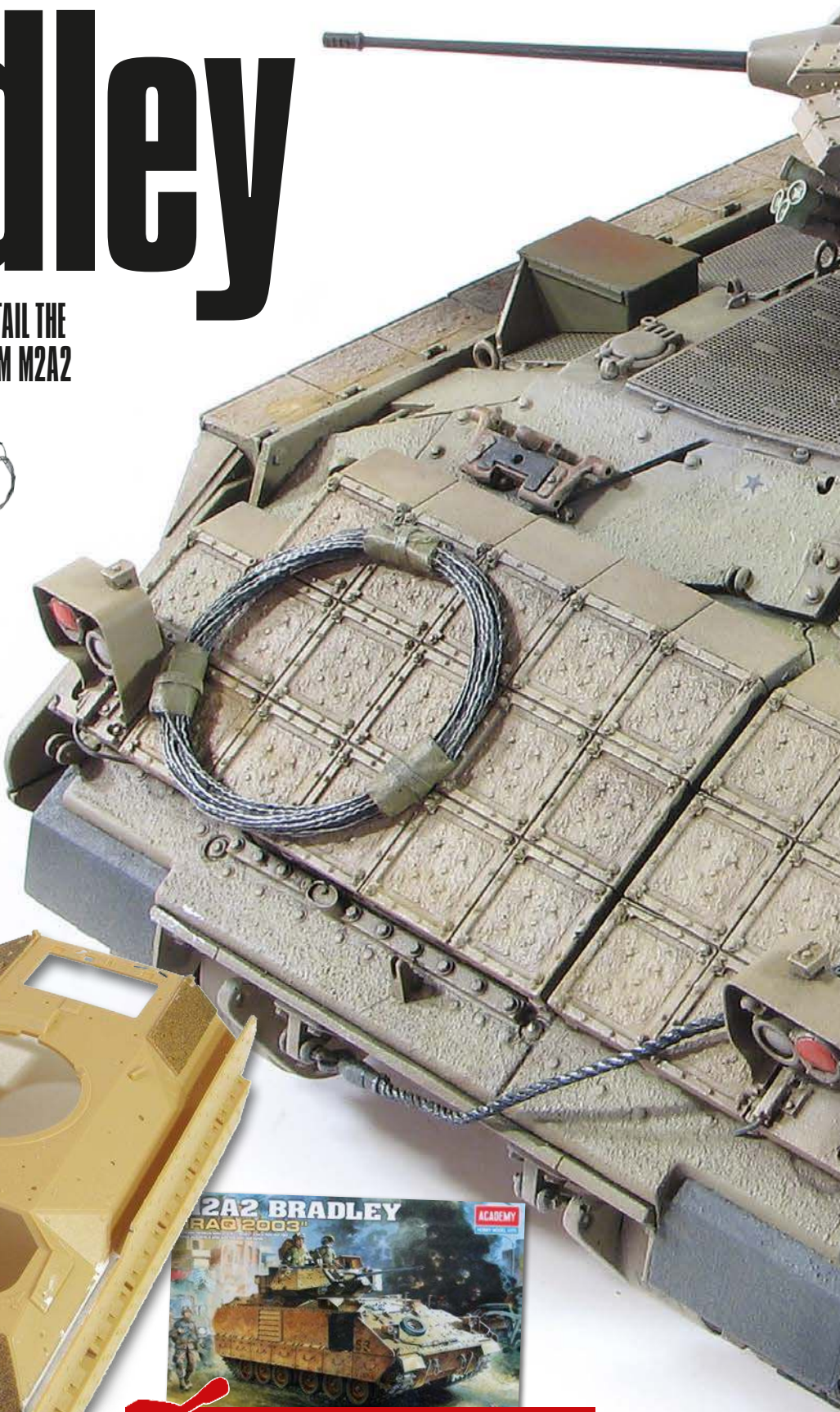
Kit Number: 13205

Desert Storm

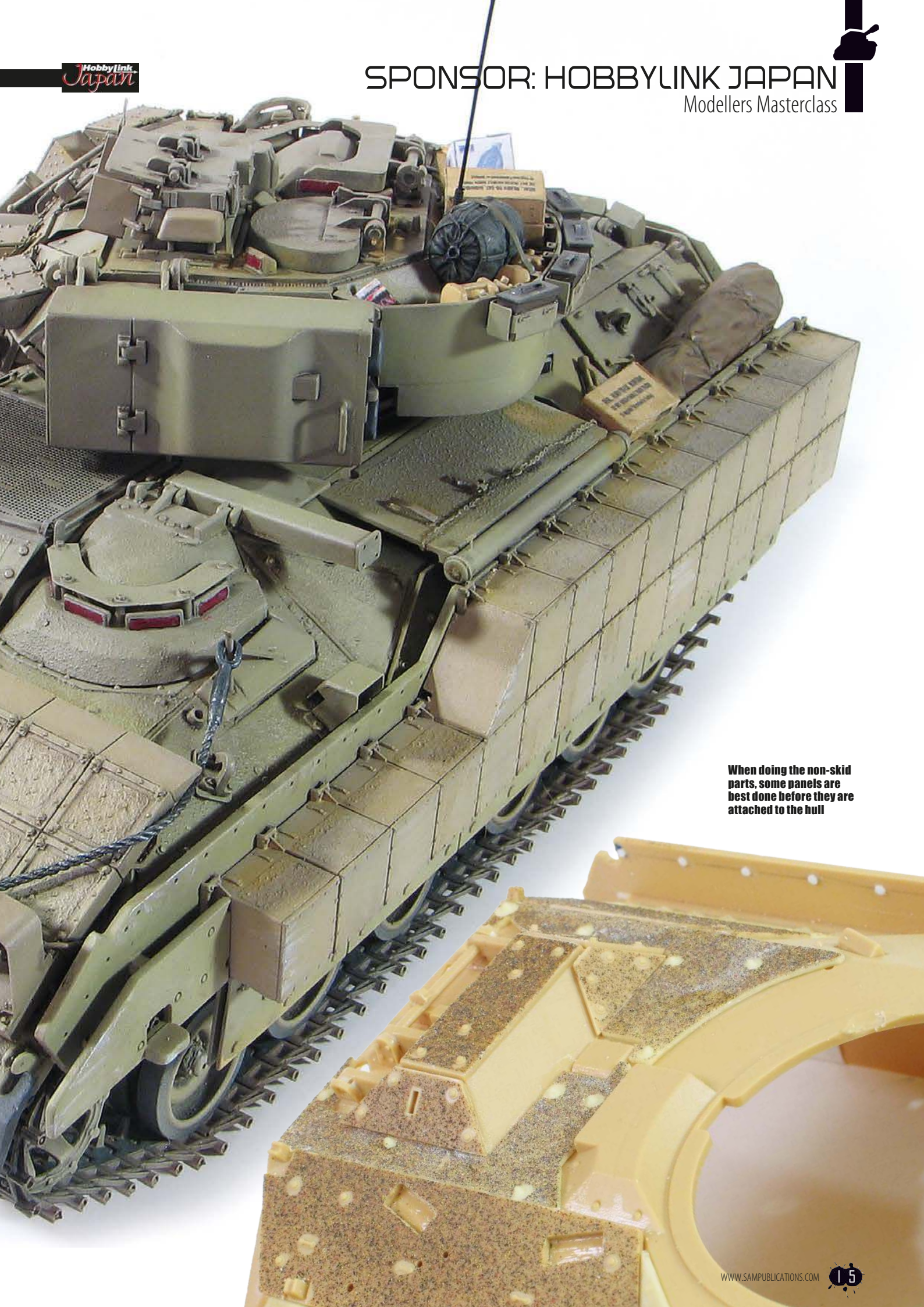
ACADEMY

FOR THIS BUILD, I AM USING THE ACADEMY M2A2 'OIF' BOXING. THE KIT BUILDS INTO A DECENT LATE M2A2 'DESERT STORM' (ODS) OUT of the box, however there are many items that need updating and detailing. Some of these items are available as the base of the kit is the old original M2 boxing done by Tamiya in the early 1980s. In fact, the kit sprues still have M2 parts on them! One could use the Tamiya M2A2 ODS boxing as well and go through most of the same steps as with the Academy kit. Military

After a little work on the upper hull I began to add the non-skid panels



HERE ARE SOME TIPS ON HOW TO MAKE AN
ACCURATE OIF BRADLEY



When doing the non-skid parts, some panels are best done before they are attached to the hull

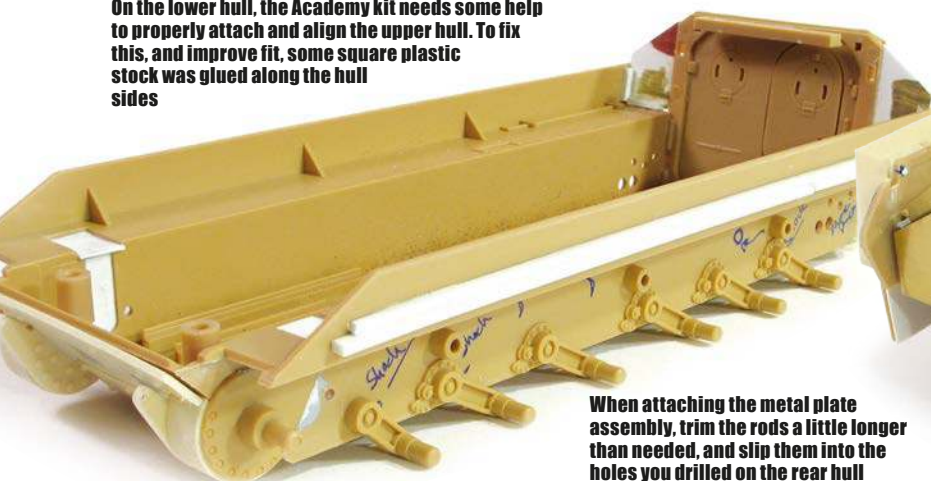


MODELLERS MASTERCLASS

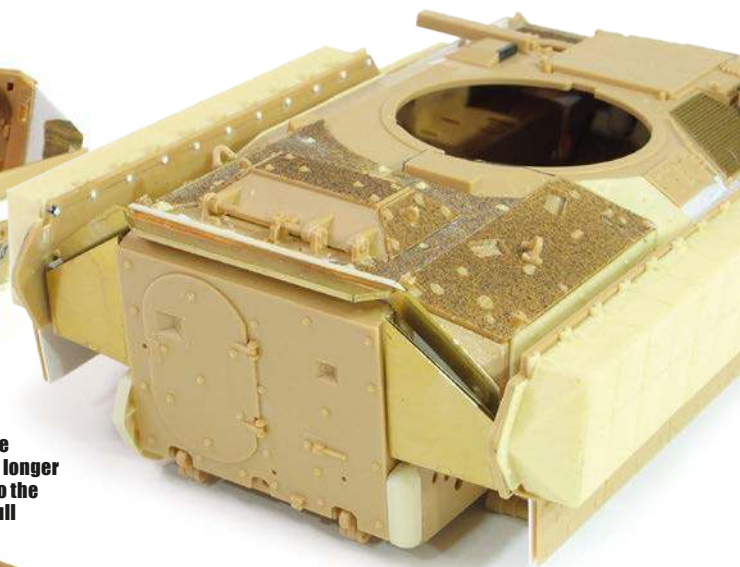
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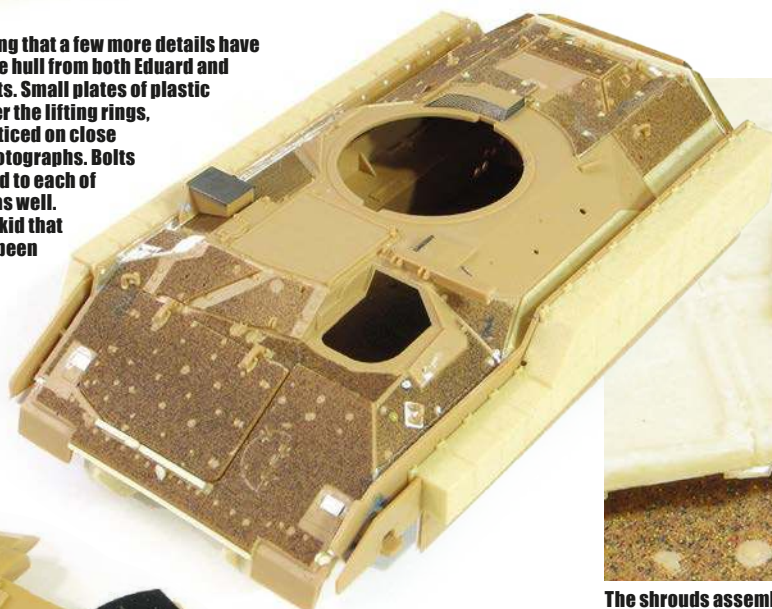
On the lower hull, the Academy kit needs some help to properly attach and align the upper hull. To fix this, and improve fit, some square plastic stock was glued along the hull sides



When attaching the metal plate assembly, trim the rods a little longer than needed, and slip them into the holes you drilled on the rear hull

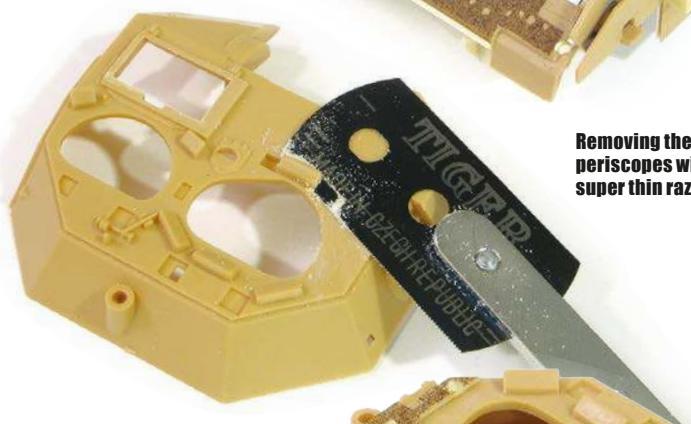


An overall showing that a few more details have been added to the hull from both Eduard and Legend detail sets. Small plates of plastic were added under the lifting rings, a small detail noticed on close inspection of photographs. Bolts will also be added to each of the lifting rings as well. Additional non-skid that was missed has been added around the drivers hatch before details were attached



The shrouds assembled and turn signal light installed

Removing the periscopes with a super thin razor saw



Here the armour plate is installed in preparation for the assembly of all the turret parts. Note the small square of white plastic where the sight housing will go

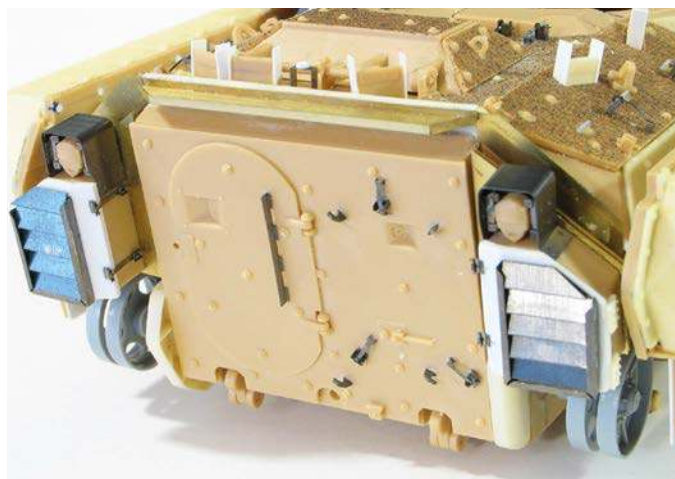


Looking at the right side of the turret with many smaller parts being added





A look at the turret with all of the details added, except the barrel. All of the light-yellow resin came from Legend, while any silver metal is from the Eduard detail set. The grey plastic tie-downs on the rear turret slope, inside the basket, are extras from Dragon Sherman kits



The rear received a host of Eduard parts, including CIP panels. Before adding CIP panels, the covers on the rear stowage boxes were enhanced by laminating some sheet stock and strip to build up the cover

Ready for some paint. All of the details are on, including the tow cable. Unpainted, you can see the amount of changes and improvements needed to make an accurate and updated M2A2 OIF Bradley with ERA blocks



I used the excellent Rust-Oleum Dark Grey automotive primer



For the base colour, I used Vallejo Model Air 71023 Hemp and 71040 Burnt Iron. I simply started with the Hemp, adding the Burnt Iron until I had a nice reddish-brown hue

The ERA blocks a sand colour, so using Vallejo Model Air 71028 sand, I sprayed all of these, building up layers and allowing some of the previous colour to show through



Once the ERA blocks were dry, I masked off the edges to protect the sand coloured parts and sprayed the pale green. The green is a mix of Vallejo Model Air 71028 Sand with #71006 Camouflage Light Green dripped in until it looked right. A little white was also added to lighten it up slightly





MODELLERS MASTERCLASS

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Hobbylink
Japan



Another shot of the model with the light green hull and tan ERA blocks. Note the dark green front-most road-wheel



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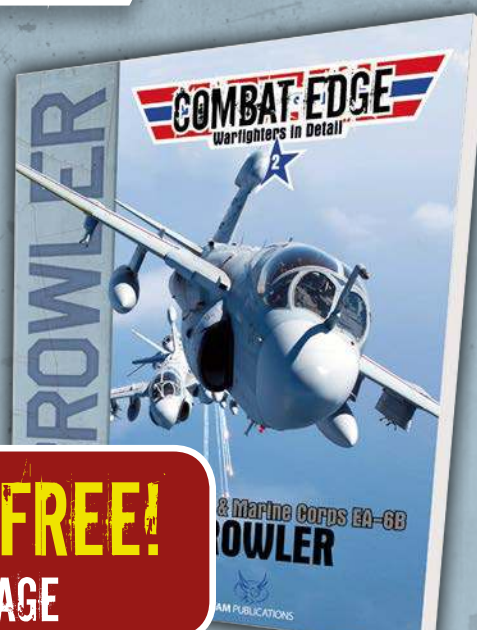
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SHOW REPORT

2018 Scale Model Challenge Show

Scale Model Challenge Show

ROBIN GILBY REPORTS FROM THE EINDHOVEN CONFERENCE CENTRE IN THE NETHERLANDS

2018 Show Report

THE 20TH AND 21ST OCTOBER SAW THE 2018 SCALE MODEL CHALLENGE SHOW HELD JUST OUTSIDE EINDHOVEN IN THE

Netherlands. This show has now established itself over the last ten years as one of the largest in Europe and attracts many interesting traders, clubs and displays from around the world. There are also workshops and demonstrations scheduled throughout the weekend which can be pre-booked in advance. This year I decided to visit for the weekend and experience the show for the first time so Friday afternoon we hit the road and then the Channel Tunnel. (Thanks again for doing all the driving Ian!)

The show is very easy to find in the suburb of Veldhoven with ample parking and is extremely well laid out and easy to follow, although two days is really required to see everything properly. The whole weekend was a real pleasure with a unique atmosphere and is highly recommended if you get the chance to visit. Don't let the location put you off, as like me, depending where you live in the UK the distance is not too much different than travelling to Telford! Highlights for me were the chance to see so many different traders (138 in all), most of which never make it to the UK (so take plenty of pocket money!) and the excellent

competition hall, every class was well represented with some stunning builds to be enjoyed. Here are some of my favourite models and dioramas from around the show. Then delete '...and some various upcoming releases which were displayed by MiniArt. [MiniArt](#)



SHOW REPORT

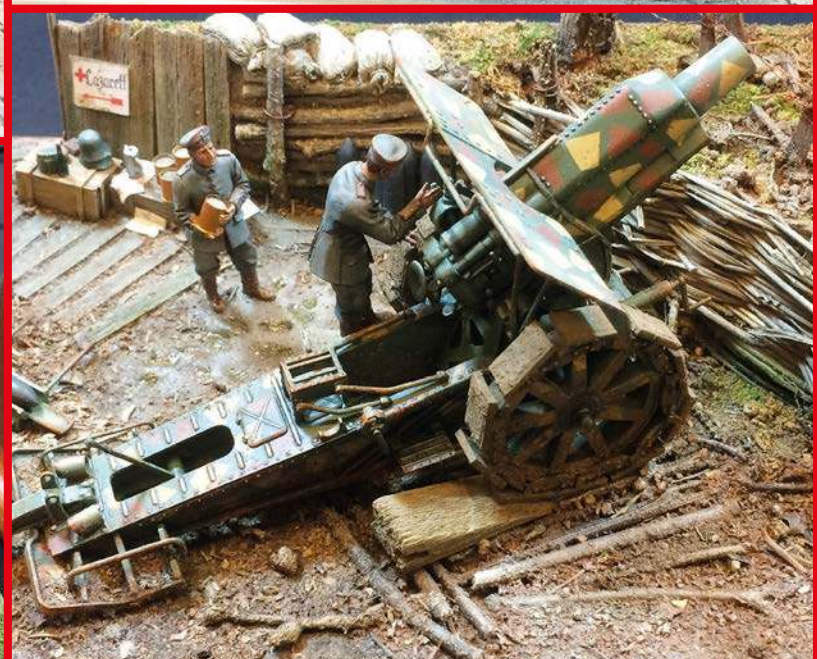
2018 Scale Model Challenge Show





SHOW REPORT

2018 Scale Model Challenge Show





Scale Military Modellers Tank World

The Centurion

THE CENTURION WAS SIMULTANEOUSLY THE LAST OF THE BRITISH CRUISER TYPE TANKS AND THE FIRST MAIN battle tank. The Centurion was born as the A41 Cruiser tank and followed precise specifications that tried to erase faulty past designs and enhance durability, reliability, protection and mobility. For firepower, the 17 pounders still seemed up to the task of dealing with German heavy armour. Protection minimal specs included the ability to resist a frontal direct hit of an 88mm shell or the blast of a mine. The first step was creating a longer hull, with by the same set of long-travel five-wheel suspension, lengthened by a sixth pair. The original Christie suspension vertical spring coils sandwiched between side armour plates were replaced by a Hortsman suspension. Drive sprockets were at the rear, near the engine, and idlers at the front

and the tracks were made of a hundred and nine manganese steel links. The cast turret extremely thick, featuring an impressive 152mm of armour on the mantlet. The sides were also well sloped, 38mm thick, but additional protection was provided by the large storage boxes on the mudguards, the drivetrain and suspension on the lower part of the hull. The lower/upper hull plates were 76mm, the rear hull rear was 38mm and the frontal hull deck was 29mm respectively. The turret was partially cast, made roomier to accommodate a three-man crew and the latest development of the famed British 17 pounder. Another big difference was the 20mm Polsten cannon in an independent mount just on its left. The turret traverse was electric with a backup manual cranking wheel. The turret itself was a hexagon, with sloped upper parts. The basket was long enough to accommodate extra ammo. Additional storage boxes were mounted

on later versions until the turret was loaded with a makeshift protection made of spare parts, metal boxes, tools and haversacks. The original Mark 1 turret featured two extra rear storage boxes on the sides. On the top was located the commander cupola, rotatable with six long prismatic blocks of plexiglass. It was closed by a twin-part hatch and surrounded by a rail guide for an extra AA machine gun.

In May 1941 a mock-up Mark 1 built by AEC Ltd, was shown to the general staff, followed by an order for twenty pilot vehicles armed with different combinations of weapons. The final weight was eventually 42.5 short tons, two and a half short tons above the required limit. This was due to the realisation that providing sufficient armour protection against a direct hit from a German 88mm within the weight limits, was proven quite impossible in the later development phase. These limits were tailored for the





maximum load allowed by the standard Mark I/II transport trailers. When it was clear for the war Ministry that there was no way to meet these limits without serious performance sacrifices, a new transport trailer was devised, and the limits raised. The Mark 1 was considered highly successful, but in 1946 the Soviet tank threat forced the devising of an up-armoured version, known as the Mark 2, with thicker armour and a

new fully cast turret. This vehicle quickly replaced the Mark 1 on the production line, as 800 were ordered in November 1945 and entered service in December 1946 with the 5th Royal Tank Regiment. After being replaced by the Mark 3, all Mark 1/2s were either converted as recovery vehicles or upgraded to the Mark 3 standard. The Mark 3 introduced a brand-new gun, the Ordnance QF 20 pounder, providing far better accuracy

due to a newly-developed fully automatic stabilisation system. This allowed the gunner to fire on the move. The second modification was the replacement of the Polsten 20mm by a much lighter standard 7.62mm in) Besa machine-gun. The Mark 3 was introduced in 1948 and production was higher than that of the Mark 2. They served in Korea extensively and proved somewhat more effective than the M26 Pershing and M46 Patton on the battlefield.

The Mark 5 however, was a new league of the Centurion development. It introduced a more powerful version of the Meteor engine, a new gun sight and gun stabiliser. The Mark 5 also had Browning machine guns fitted to the coaxial and commander's cupola mounts, and stowage bins fitted on the glacis. The Mark 5/1 (introduced an increase in frontal glacis thickness and a twin-arrangement of coaxial machine guns, one .30 cal Browning and one heavy .50 cal (with tracers, used



THE CENTURION

SMMI Tank World

SCALE
Military
1:35

for ranging for the 20-pounder main gun. The Mark 5/2 introduced the latest gun developed by the Royal Ordnance Factories. The famous L7 105mm gun. The breach had a horizontally-sliding breechblock. The L7 then became the staple of western main battle tanks gun and stayed in the first-line of the British inventory until the new L11 was available. The versions which followed up until the production ceased, and even after for the British Army, were more basic upgrades like the Mark 6, former Mark 5s and Mark 5/1s upgraded with the L7 gun, then IR equipment and ranging gun. The Mark 7 had revised engine decks, was up-armoured and up-gunned, the Mark 8 had a resilient mantlet and new commander cupola, while the Mark 9 had IR equipment fitted and ranging gun, and the following Marks were upgraded with the same equipment.

Australia and Canada both received their Centurions early on. The Australian ones saw heavy fighting in Vietnam, while the Canadians saw early action in Korea in the 1950s. Former Canadian Centurions were sold to Israel and are still in service, converted. New Zealand also acquired twelve of them, now retired. The Netherlands, Switzerland, Denmark and Austria all acquired the Centurion. In 1953, the Royal Swedish army purchased eighty Mark 3s (20-pounder) and in 1955, 160



Mark 5s. However, their instrumentation had to be changed into the metric system and they swapped their original radios for Swedish ones. Since these vehicles pre-dated NATO standardisation, they had to be made compliant later. These vehicles were called Stridsvagn 81. Another batch of 110 Mark 10s purchased in 1958 with the new L7, called Stridsvagn 101, also converted to NATO standards. By the 1960s, these vehicles were gradually updated to the Stridsvagn 102 and Stridsvagn 101R standards. Egypt acquired some but replaced them later with Soviet and US models. They saw combat in the 1967 war, against Israeli Centurions. Iraq also purchased some vehicles, but

they were in reserve or deactivated before the First Gulf War. The IDF owed a great deal to these vehicles and adapted them as the Sho't. Many hulls were converted to the Nagmachon/Nagmashot heavy APCs, Nakpadon ARVs and Puma CEVs. South Africa is the longest time user of this vehicle. South African Centurions were converted to a highly modernized version, with the help of IDF engineers and modernization kits. This became the Olifant, still in service today. Somalia also used some vehicles and for some time the Libyan Free Army fielded a Centurion AVRE from Jordan. India also acquired the Centurion Mark 7 (L7 gun), later replaced by the Vickers Mark II. They saw intensive action during the Pakistani war of 1965. Singapore purchased sixty-three Centurion Mark 3 and Mark 7 from India in 1975, followed by others ex-Israeli Sho't tanks in 1993.

During the Korean War British Centurions from the Commonwealth divisions operated with certainly the best results of all allied AFVs present on the battlefield. Their 20-pounders could destroy any long-range targets with pinpoint accuracy. During the Suez Crisis British Centurions were also deployed with some limitations due to high command's initial hesitations on how to combine in the right proportion's sea, air and land power projections. Four Indian Armoured Regiments were equipped with





the Centurion in 1965, and in the Battles of Assal Uttar, Khem Karan, Phillora, Chawinda and others they proved superior to Pakistani M47 Patton's. India's Centurions were also committed to the liberation of Bangladesh (War of 1971). By the time the Six-Day War began, the Israel fielded 293 Centurions out of a total of 385 tanks. Their outstanding success was due to tactics, training and some luck, but they managed to destroy large numbers of enemy tanks and even some enemy Centurions, while managing to capture thirty of the forty-four fielded by



Jordan. But their fame really came during the battle of 'The Valley of Tears' (Golan Heights, 1973 Yom Kippur War). Outnumbered one to five, they nevertheless managed to wipe out or repel the bulk of the Syrian army made of five hundred T-54/55 and T-62s. Modernized Sho't tanks were also heavily engaged in the 1982 invasion of Lebanon. Australia fielded Centurions during the Vietnam War and the first tank unit, C Squadron, arrived in February 1968, equipped with eight tanks, two dozer and two bridge-layer versions.



CHIEFTAIN MK.5

Scale 1:35 / British Army

SCALE
Military
HOBBY

Standing Guard

IWAN HUGHES BUILDS AN ABSOLUTE CLASSIC KIT FROM TAMIYA,
THE BRITISH ARMY CHIEFTAIN MK.5

TAMIYA

THIS MODEL IS WHAT I WOULD CALL AN 'OLD SCHOOL' TAMIYA KIT WHICH FIRST APPEARED IN 1975. IT IS ALSO ONE OF THE FIRST VEHICLES I BUILT WHEN I TOOK UP THE HOBBY IN 2012! THE KIT IS MADE UP OF FIVE sprues, separate loose upper and lower hull sections, 'rubber band' tracks and three figures - well, a commander, gunner and the driver's upper torso! There is a decal sheet that provides three options; British Army Manoeuvres in Canada, Manoeuvres in England and British Army in West Germany. The Assembly was very straight





Chieftain Mk.5

Manufacturer: Tamiya

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 68



forward with no issues or requirement for any filler. The quality of the figures are, as expected from such an old kit, quite bulky and lacking in too much detail. Retrospectively, I would have changed these for some aftermarket figures. The majority of the detailing is moulded into the upper hull section with items such as the stowage boxes, lights etc being fitted into pre-drilled positions. The turret is made of two main pieces with the large IR spotlight, stowage baskets and boxes, hatches and cupola being added separately. The kit was mostly free of flash

and pin marks. The detail on the upper hull and turret was of very sharp and defined quality. Unfortunately, there is no option to have the stowage boxes left open; however, the more adventurous modeller may attempt to cut the lids off to achieve this appearance. As the tracks are fairly wide, free of any flash and with four pins to connect them, I had no issues with getting them to adhere using regular superglue.

I primed this vehicle with an overall coat of matt black primer by Vallejo, 73.602 applying approximately two thin coats to get a nice even coverage. I then used Vallejo Model Air US Olive Drab, 71.043 to paint over the green camouflage scheme; I had chosen to go for the British Manoeuvres paint and decal scheme as it seemed so familiar to me from the real examples I had seen of this iconic tank. I had planned on painting over the black areas left between the olive drab; however, the black primer paint was giving a brilliant appearance and contrasted perfectly with the green. Due to this, I decided that 'if it's not broken, don't fix it! So, I left the Black Primer as my second colour in the paint scheme. I applied my chosen decals and several thin layers of Vallejo Matt Varnish, 70.520. I was concerned that any weathering may destroy the black primer paint and show bare plastic. Once the varnish had dried

**THIS MODEL IS WHAT I WOULD CALL AN
'OLD SCHOOL' TAMIYA KIT**

CHIEFTAIN MK.5

Scale 1:35 / British Army

SCALE
Military
MODELING



thoroughly overnight, I painted the detailed sections of the kit, such as tow cables, fire extinguishers, the gun thermal sleeve etc with a range of Vallejo paints. I find the gun thermal covering quite an iconic feature of this particular tank. This feature on the kit is of very good detail with sharply moulded securing straps and a texture to the material. I used a highly contrasting selection of colours Vallejo Khaki, 70.988 for the cover, and Vallejo Iraqi Sand, 70.819 for the straps, to accentuate these great features.

To weather the vehicle, I used Vallejo US Dark Green, 70.893 to create a chipping effect along some of the edges with a very fine brush. For the larger chips I had created, I used Vallejo Hull Red, #985 Hull Red to create the effect of rust starting to form. I decided to use Vallejo Natural Steel, 70.864 to dry brush some of the edges and ribs on the track covers to simulate wear and tear, being careful when doing this not to cover up the

previously painted chipping marks. I also used the natural steel paint to create some scratches on the side of the large IR light on the left of the turret. I used AK Interactive Dark Brown wash, AK045 to add some depth around the 3D features on the hull, panel lines and turret. I also used this product to make some very gentle streaking effects on the turret and the side skirts. I then gave the whole kit a covering of Vallejo Natural Umber





pigment, 73.109 which was heavily watered down. Once this was dry, I used a stiff brush to remove most of the excess dried pigment, leaving only the pigment gathered in the corners and recesses of the vehicle. I used the mud colour from the Tamiya Weathering Master Set #87079 to dull down the upper surfaces and the black areas of the paint scheme. I had noticed from my research that the black paint on British vehicles tends to get a kind of grey-green hue to it over time; this is from water staining and exposure to sunlight. I found that using the Weathering

set simulated this effect beautifully. To complete the project, I gave the exhaust pipes a covering with Vallejo Brown Iron Oxide pigment 73.108 to simulate rust and applied some dry pigment onto some rear deck grills. *Military*

This was a thoroughly enjoyable build and, in my opinion, a must have for any keen modeller!





KURSK PANTHER

Scale 1:35 / Revell Fighting Colours

Revell



World war II Kursk

PANTHER

RAY DEAKIN BUILDS THE 1:35 REVELL Pz.KPFW.V PANTHER AUSF. D

REVELL

FOR MANY MODELLERS, THE PANTHER IS ONE OF THE BEST LOOKING AND MOST CHARISMATIC TANKS OF WORLD WAR II. THE kit I am using for this build is the 1:35 Panther Ausf. D, which is in fact the an old ICM kit re-boxed with new decals for two different vehicles that served at Kursk. The construction began with the lower hull and axles, and if you want you can actually position the wheels by removing the small pin where the axle fits. The biggest problem, however, is the lack of part numbers, and you need to carefully check



Pz.Kpfw.V Panther Ausf. D

Manufacturer: Revell

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Parts: 442

Kit Number: 03095

the instruction sheet to find each item. After assembling the rear and the mufflers you move to the upper hull. Here the details are nice, but the hatches need some serious work to fit. On the turret there is the counterweight for the main gun although the barrel needs a lot of sanding. Some parts have small ejector pin-marks,

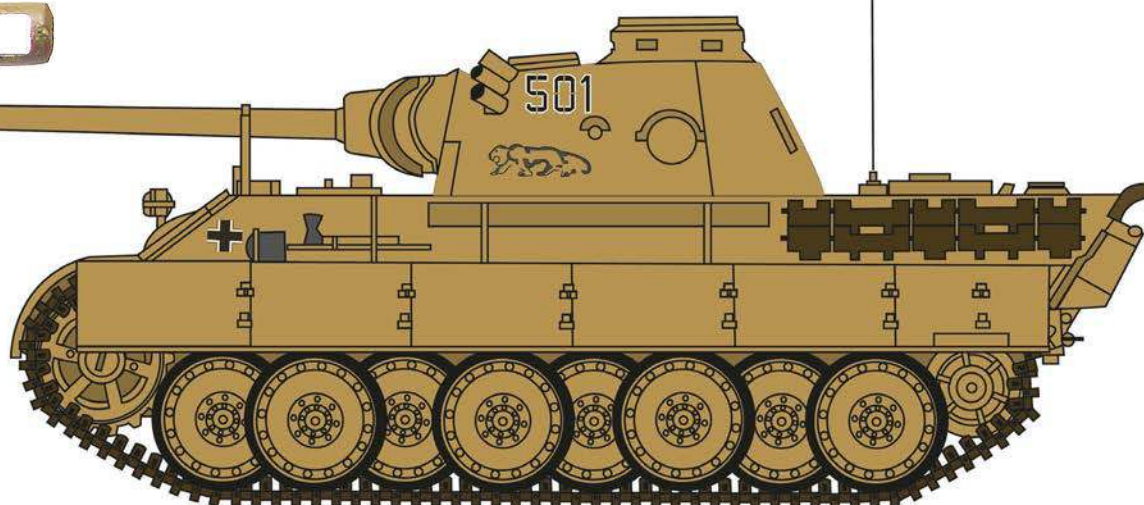
however, the Schurzen have larger sink marks that need looking at.

Moving on to the painting stage I first applied a coat of Tamiya liquid surface primer, followed by an overall pre-shade coat of Black. Once dry I then applied a thin coat of Model Master Dunkelgeb to show a little of the Black. A mixture of Dunkelgeb, White and Wood was then applied on the hatches, followed by a colour modulation using Dunkelgeb, White and a drop of Gloss varnish, and this was added to the highlighted areas such as the handles, bolts and rain guards. When the paint had set, the decals were applied followed by a coat of Vallejo Satin.

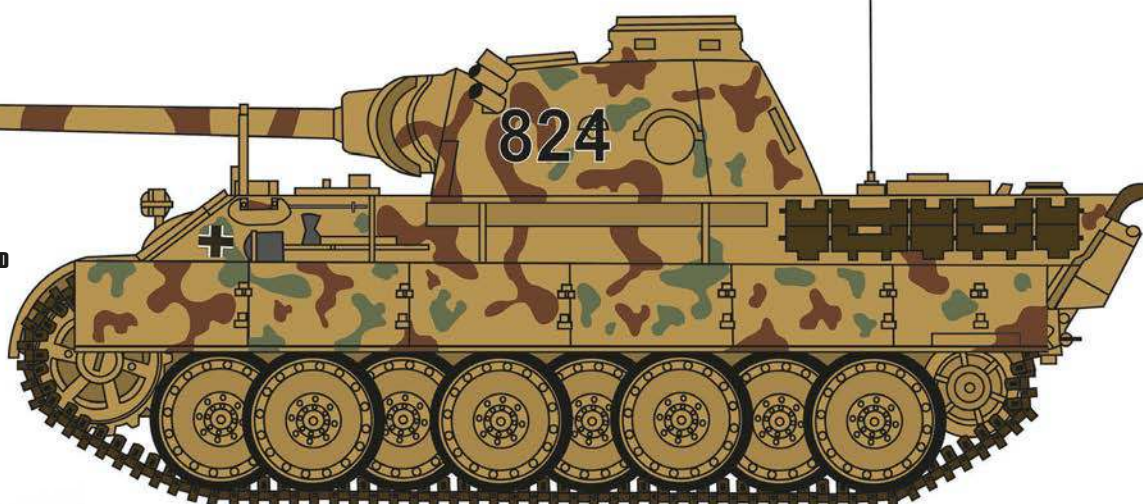
Weathering began with filters using artists' oils, adding lighter colours on the upper surfaces and darker colours on



Pz.Kpfw.V Panther Ausf. D
Pz.Bat. 51, Kursk 1943



Pz.Kpfw.V Panther Ausf. D
Pz.Abt.52 Kursk 1943



Revell's kit is
simple and easy to
construct



the lower parts, mixed with odourless turpentine. This was followed by an application of MIG Productions Dark Wash. Following this stage, I added some paint chips using Vallejo 'German Yellow' and 'German Camouflage Black/Brown'. The German Yellow was applied by sponge, and I brush painted some Black/Brown

A colour modulation using Dunkelgelb, White and a drop of gloss varnish was added to the highlighted areas such as the handles, bolts and rain guards





KURSK PANTHER

Scale 1:35 / Revell Fighting Colours

Revell



Oil stains on the engine hatches were added using MIG Productions 'Oil and Grease Stain Mixture'



chips and also added some AK Interactive 'Streaking Grime' for more effect. Oil stains on the engine hatches were added using MIG Productions 'Oil and Grease Stain Mixture', and finally various MIG Productions pigments and AK Interactive 'Earth Effects' were applied to the road wheels and tracks. Revell's kit is simple and easy to construct, and despite some faults you end up with a nice-looking model. [Military](#)

FOR MANY MODELLERS, THE PANTHER IS ONE OF THE BEST LOOKING AND MOST CHARISMATIC TANKS OF WORLD WAR II



XXX

SMMI CENTRE

Military News & Previews

As always it is our intention to provide our readership with the most up-to-date and comprehensive survey of the industry and its impending releases as we can supply in print, and to this end we rely largely on contributions and information received from outside sources. In the interests of accuracy, SMMI invites all manufacturers and producers of kits, accessories, conversions, decals and books to keep us informed of their current and proposed future releases, and let us have this information, along with any high resolution images, and we will be glad to include them. Bearing in mind the more the information supplied, the more column space their products will occupy in the SMMI News Section. Any press releases, news updates, product details and bulletins should be sent direct to the Editor at andyevans@sampublications.com for inclusion in the earliest possible issue of the magazine.

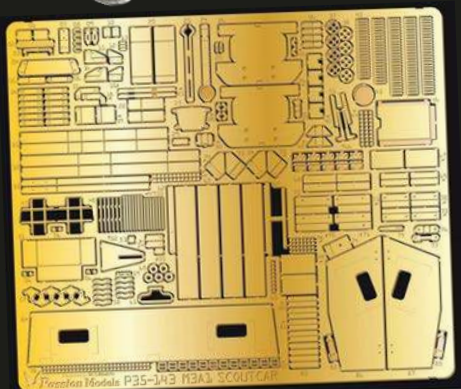
As ever there are plenty of new products around to edify and excite, so without further ado....here is the news!

Andy Renshaw

CMK

1:72 - Austro-Hungarian WWI 30,5 cm
Belagerungsmörser M.11
(Skoda 30.5cm Haubitze)

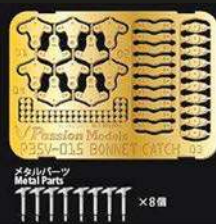
• www.specialhobby.eu



Passion Models

P35-143 - 1:35 M3A1
Scout Car Etch Set
P35V-015 - 1:35
Bonnet Catch Set

• www.passionmodels.jp



Takom

5004 - 1:72 MAZ-537G Tractor with CHMZAP-5247G

• www.takom-world.com



ON THE SIDE

Ammo by MIG

World War II American Solution Box

Manufacturer: Ammo by MIG

Set Number: AMIG7700

Price: €82.50



Vietnam Ground

Manufacturer:

Ammo by MIG

Set Number: AMIG2109

Price: €8.95

German Field Grey Uniforms

Manufacturer: Ammo by MIG

Set Number: AMIG7021

Price: €9.20



Winter Uniforms

Manufacturer:

Ammo by MIG

Set Number:

AMIG7020

Price: €9.20

US Forces Uniforms World War II

Manufacturer:

Ammo by MIG

Set Number:

AMIG7022

Price: €9.20





Ace Model

72567 – 1:35 SdKfz.6 Zugkraftwagen 5t Pioneer

• www.acemodel.ua

Copper State Models

35002 – 1:35 Romfell Panzerwagen

• www.copperstatemodels.com



Zvezda

1:35 GAZ Tiger with Arbalet RWS

• www.zvezda.org.ru



AK Interactive

Camouflage Nets – Type 1

• www.ak-interactive.com



FPW Model

1:35 – SD.KFZ.247 Command Car

• www.fpwmodel.com



Gaso-Line

GAS50277 – 1:48 Ford CMP Chevy C60L GS Truck

GAS48138 – 1:48 Conversion Set M1114 Up-Armoured HMMWV Humvee

• www.gaso-line.eu



ON THE SIDE

Hataka

HTK-BS77 – Modern British Army and RAF Paint Set

• www.hataka-hobby.com



Bronco

MB32001 – 1:35 Soviet T-34/85 Medium Tank

• www.cn-bronco.com



OKB Grigov

V72071 – 1:72 German Heavy Tank VK.3001(H)

• www.shop.okbgrigov.com



Dnepro

35113 – 1:35 VK.501

• www.dnepromodel.com



HobbyBoss

83899 – 1:35 SPZ Puma

85512 – 1:35 Ukraine KrAZ-6322 'Soldier' Cargo Truck

• www.hobbyboss.com
• www.creativemodels.co.uk





Tamiya

35364 – 1:35 German Tank Destroyer
Marder III M Normandy Front

● www.tamiya.com

W-Model

1:72 - BUK Transloader/Launcher 9A39

● www.wmodelling.com



Coming Soon



Lukgraph

35-03 – 1:35 Armoured Car Jeffery-Poplavko

● www.lukgraph.pl

AGV Models

352005 – 1:35 Santana S2 Ligero CSR

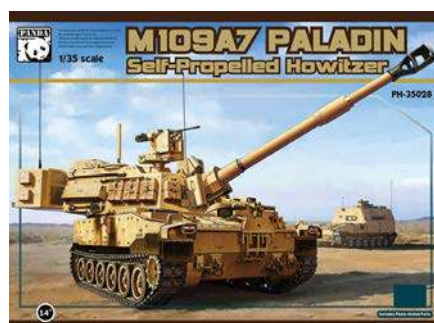
● www.agvmodels.es



Panda Hobby

PH35028 – 1:35 M1097 Paladin SPG

● www.pandahobby.co.jp

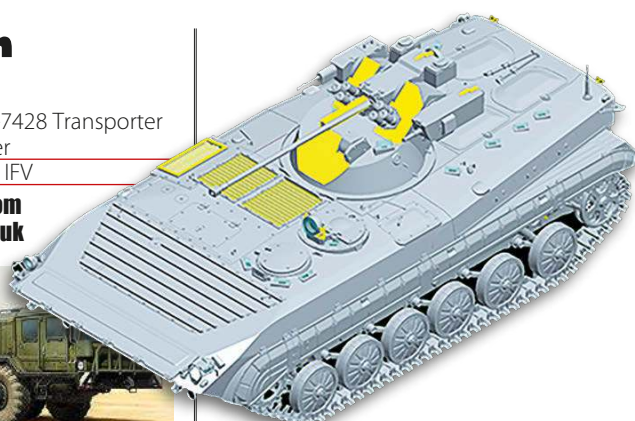


Trumpeter

01039 – 1:35 Russian KZKT-7428 Transporter
with KZKT-9101 Semi-Trailer
09572 - BMP-1 Basurmanin IFV

● www.trumpeter-china.com

● www.creativemodels.co.uk



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F/A-18E Super Hornet, 1:32

NEW TOOL



04962
British Phantom FGR.2, 1:48



03918
Junkers Ju52/3m Transport, 1:48

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ON THE SIDE

Das Werk

DW35003 – 1:35 Faun L900 incl. Sd.Ah.115

• www.das-wer-models.com



GB Modelli

1:72 – StuG L6-40 with 47mm SPG

• www.gbmodell.blogspot.com



First to Fight

PL1939-064 -1:72 Sd.kfz-231

• www.wreisen1939.com



Eduard

36404 – 1:35
Tochka (SS-21
Scarab) Interior
Set

36405 – 1:35
Tochka (SS-21
Scarab) Exterior Set

• www.eduard.com



Meng-Model

WWT-014 - British Infantry Tank A12 Matilda II Toon Tank

ES-005 – 1:35 T-90 Special Edition

VS-101 – 1:35 Rolls Royce Armoured Car

• www.meng-model.com



MMK

35056 – 1:35 TL 4

Truck

F3071 – 1:35 M915

AI Gun Truck

Conversion

• www.mmk.cz



DEF Model

DD35012

– 1:35

Sturmpanzer.IV

Brummbär late

Zimmerit Decal

Set

DM35083

– 1:35 SU-100

TD D-10S Barrel

/ Mantlet Set

DM35084 – 1:35 SU-85M TD D-5S Barrel /

Mantlet Set

DM35085 – 1:35 T-34/85 Barrel Set

DM35085 – 1:35 German StuG Topfblende

Mantlet Set



M3A1 Scout car Sagged wheel set for Tamiya kit



Total 10 Resin parts with Easy mask seal

DW30041 – 1:35 US M3A1 Scout Car

Sagged Wheel Set

DW35111 – 1:35 UK Husky TSV Sagged

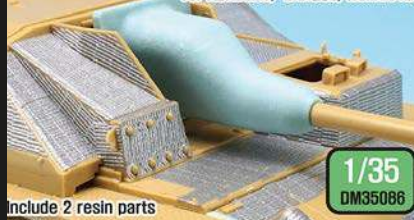
Wheel Set

• www.defmodel.com

HUSKY TSV Sagged wheel set for Meng kit



German StuG.III Ausf.G, IV Topfblende Mantlet set for ACADEMY, DRAGON, TAMIYA kit



PRODUCT OF THE MONTH

New from Shesto

shesto

Trusted for quality, since 1907

LightCraft



LC8085USB Lightcraft

THIS NEW LED LAMP WILL GIVE YOU HOURS OF NATURAL ENERGY EFFICIENT LIGHT, ALLOWING YOU TO VIEW COLOURS ACCURATELY anytime day or night, as well as the smaller detail on objects.

Since we have been featuring the Shesto 'Product of the month', we have looked at entry level daylight lamps and a top of the range example. This month we take a look at one of the mid-range lamps. This lamp

has the advantage over the entry level examples in that it has a magnifier glass built in, making it ideal to pick out those tiny details on your latest model. The lamp base is small enough not to take up too much space on your workbench and if you have never worked with a daylight lamp before you will be amazed at the difference it makes, I know I was!

The variable light settings mean that for evening use if you use the warmer setting

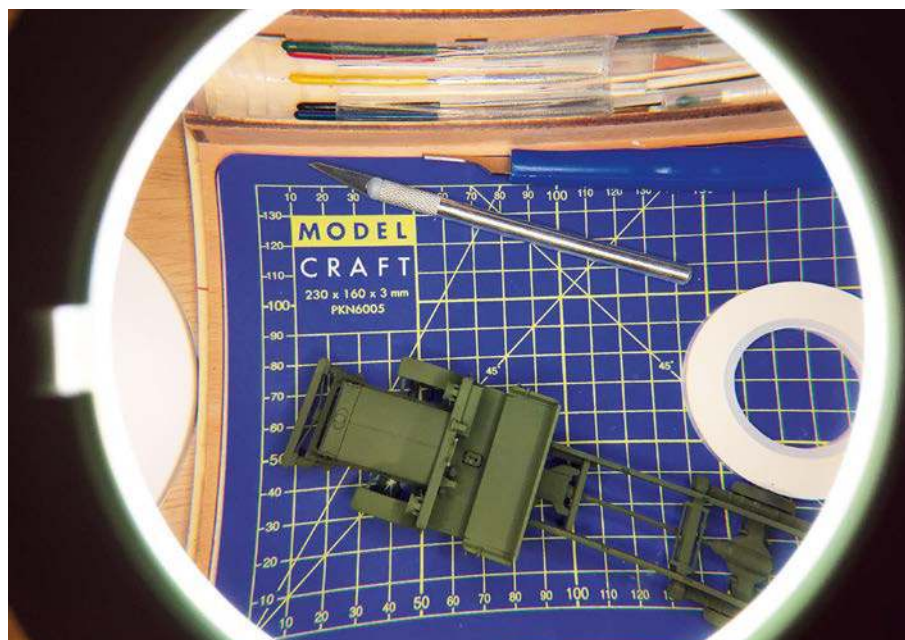
Description

- 24 LEDs producing 3000 – 6100K light with 90 CRI for improved colour rendering
- Energy efficient & Sustainable, using only 7.5w
- LEDs never need replacing
- 3 settings provide soft white to daylight
- Soft light: 3000K (200 lumens)
- Bright light: 4000K (320 lumens)
- Daylight: 6100K (220 lumens)
- Shadow-free, cool light that cuts glare and helps reduce eye strain and headaches
- High-quality 100mm (4") glass lens
- 3 dioptre (1.75x magnification)

eye strain and tiredness will be reduced. The other feature of this lamp I really like is the USB charging cable. My modelling desk has my laptop and printer on it, so plug sockets are at a premium, but I can plug this lamp into my laptop to keep it bright!

The Lightcraft range offers a great selection of LED and fluorescent daylight magnifier lamps. The range includes, table lamps, long reach and task lamps, headband magnifiers and lightboxes. For more information on this lamp and the others in the Lightcraft range please visit www.shesto.com

My thanks to Shesto for supplying this lamp for us to look at. **Military**



ON THE SIDE

Toro Model

35D55 – 1:35 Leopard Tank in Polish Service Vol.3

35D56 – 1:35 British Sherman Tanks at Alamein Vol.1

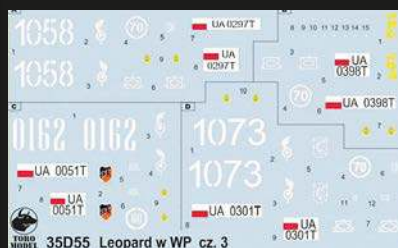
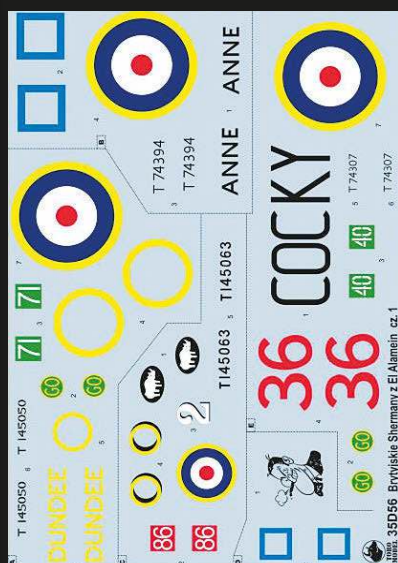
35D57 – 1:35 PTO Sherman Tanks Vol.2

48D21 – 1:48 British Sherman Tanks at Alamein Vol.2

72D42 – 1:72 Polish Army Vehicles on Foreign Missions Vol.1

72D43 – 1:72 Armoured Scout Car BRDM in Polish Service Vol.1

• www.toro-model.home.pl



Echelon Fine Details

AXT3510311 – 1:35

SS-Pz.Div. Panthers Normandie 1944

AXT351032 – 1:35

SS-Pz.Div. Panthers Normandie 1944

D356257 – 1:35 Gun Trucks in Vietnam:

M54s

D356261 – 1:35 Gun Trucks in Vietnam: M54s

• www.echelonfd.com



Zvezda

BMD-1 Soviet Airborne Fighting Vehicle

Manufacturer: Zvezda

Scale: 1:35

Kit Type: plastic injection moulded

Kit Number: 3559



OT-26 Soviet Flame Thrower

Manufacturer: Zvezda

Scale: 1:35

Kit Type: plastic injection moulded

Kit Number: 3540

Panzer IV Ausf E

Manufacturer: Zvezda

Scale: 1:35

Kit Type: plastic injection moulded

Kit Number: 3641



T-90MC

Manufacturer: Zvezda

Scale: 1:35

Kit Type: plastic injection moulded

Kit Number: 3675



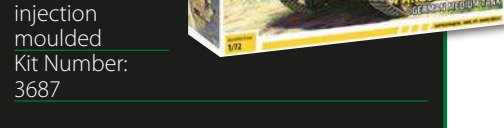
T-34/85

Manufacturer: Zvezda

Scale: 1:35

Kit Type: plastic injection moulded

Kit Number: 3687



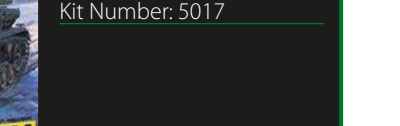
Panzer IV Ausf H

Manufacturer: Zvezda

Scale: 1:72

Kit Type: plastic injection moulded

Kit Number: 5017



Star Decals

1:35

35-C1197 Vietnam Gun Trucks # 4 Quad .50 cal Gun Truck 'Easy Rider', 'Young Crusaders'
35-C1198 Vietnam Gun Trucks # 5 Quad .50 cal Gun Truck 'Freedom Fighters', 'Mad Man'
35-C1199 Vietnam Gun Trucks # 6 Quad .50 cal Gun Truck and Quad .50s 'Bounty Hunter'
35-C1200 Vietnam Gun Trucks # 6 Up Armoured 37 3/4-ton Trucks, 'Mr Nice', 'Malfunction, Otto'
35-C1201 CVR(T) Scorpion # 1. New Zealand, Iran, Iraq, Thailand, Malaysia, Indonesia, Philippines
35-C1202 CVR(T) Scorpion # 2. Spain, Nigeria, Togo, Chile, Venezuela, Honduras.
35-C1203 Allied M3A1 White Scout Car. Polish, NZ, South African and British Scout Cars in Italy 1943-45
35-C1204 Free French M3A1 Scout Car. Italy, Corsica, France 1943-45
35-C1205 British Armoured Cars # 2. M3A1 White Scout Car and Humber LRC III in NW Europe
35-C1206 Sherman Mk III. British Sherman tanks in North Africa. Early production M4 in Egypt 1942



35-C1207 German Tanks in Italy # 7. StuG III Ausf G, Semovente M42 da 75/18, Semovente M42 da 75/34
35-C1208 German Tanks in Italy # 8. CV.35, Pz-Beob.Wg. III, Bef-Pz III J Pz.Kpfw.IV H, T-35 m/1943
35-C1209 German Tanks in Italy # 9. Pz.Div. Hermann-Göring Pz.Kpfw.III M/N, Pz.Kpfw.IV G/H, Marder II
35-C1210 German Tanks in Italy # 10. StuG II Ausf G, Tiger I Late, Pz.Jäger Nashorn
35-C1211 German Tanks in Italy # 11. Panther



Ausf A, Bef-Panther Ausf A, Panther Ausf G.
35-954 Pz.Kpf.IV Ausf J. 5. Pz.Div, 12. Pz.Div, 1. SS-Pz.Div. LAH
35-958 Op. 'Nordwind' # 2. Ardennes 1944-45. Pz.Kpfw.IV Ausf J, Panther G, Bef-Panther, Jagdpanther



1:72

72-A1021 German Tanks in Italy # 1. Sicily 1943. Tiger I, StuG III F/8, Pz.Kpfw. III J/N/M, Pz.Kpfw. IV G/H.
72-A1022 German Tanks in Italy # 2. Tiger I Early, Tiger I Mid, Tiger I Late, Tiger I Funklenk (Fkl).
72-A1023 German Tanks in Italy # 3. Pz.Kpfw.IV Ausf G and Ausf H.
72-A1024 German Tanks in Italy # 4. Pz.III Flame-tank, Pz-Beob.Wg. III, Bef-Pz.Kpfw.III, Pz.Kpfw. IV H.
72-A1025 German Tanks in Italy # 5. Battle for Cassino 1944.
72-A1026 German Tanks in Italy # 6. StuG III Ausf F/8, StuG III Ausf G, StuG 42 ausf G.
72-A1027 German Tanks in Italy # 7. Panther Ausf A, Bef-Panther Ausf A, Panther Ausf G.

• www.star-decals.net



ON THE SIDE

Duplicata Productions

1:35 - Modern Afghan Billboards, Road Signs, Health Posters and Election Billboards
1:35 - US World War II Health Posters
1:35 - South Vietnamese Propaganda Posters, French Indochina.
1:35 - Modern French Spring Water Boxes
1:35 - Modern Billboards
1:35 - Modern Newspapers
1:35 - Modern City Hand Bills
1:35 - Japanese 'Good Luck' Flag World War II

• www.duplicataproductions.com



ON THE SIDE

MiniArt

SU-122-54 Late Type

Manufacturer: MiniArt

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 37042

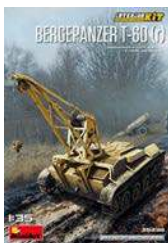
**Bergepanzer T-60(r)**

Manufacturer: MiniArt

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 335238

**BM-8-24**

Manufacturer: MiniArt

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 35259

**Tacam T-60**

Manufacturer: MiniArt

Scale: 1:35

Kit Type: Plastic injection moulded with etch

Kit Number: 35240

BRM-1 Late with KMT-7

Manufacturer: MiniArt

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 37039

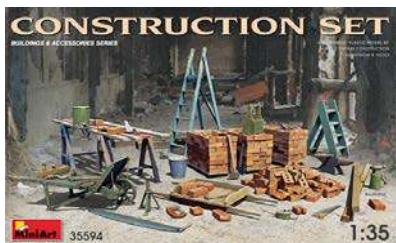
**Construction Set**

Manufacturer: MiniArt

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 35594



DN Models

35/827-076 – 1:35 IDF Tiran Tank Paint Mask set – Markings and Numbers

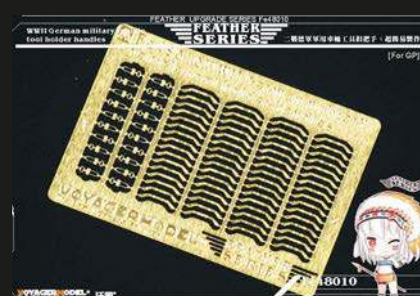
● www.dnmodels.com

Voyager

PE35848 – 1:35 World War II German Panzerkampfwagen VI (P) No.003 Ver 2.0
 PE35891 – 1:35 Modern German Leopard2 Revolution 2 MBT Basic
 PE35963 – 1:35 Modern Soviet 2A3 Kondensator 2P 406mm S.P.H Upgrade Set
 PE35966 – 1:35 Modern South Africa G6 Rhino S.P.H Basic
 PE35973 – 1:35 Egyptian T-34/122 S.P.G Basic



PE35974 – 1:35 T-34/85 and T-34/122 Fenders
 BR35108 – 1:35 Modern US Army M8 Armoured Gun System Taillights
 FE48001 – 1:48 World War II German Tiger I Grilles Set
 FE48002 – 1:48 World War II German Panther G Grilles Set
 FE48003 – 1:48 World War II German Jagdtiger Grilles Set
 FE48004 – 1:48 World War II German King Tiger (Henschel Turret) Grilles Set
 FE48005 – 1:48 World War II German King



Tiger (Porsche Turret) Grilles Set
 FE48006 – 1:48 World War II German StuG III Ausf G Grilles Set
 FE48007 – 1:48 World War II German Pz.III/StuG III Grilles Set
 FE48008 – 1:48 World War II German Sturmtyger Grilles Set
 FE48009 – 1:48 World War II German Tiger I Africa Troop Grilles Set
 FE48010 – 1:48 World War II WWII German Military Vehicle Tool Holder Handle

● www.voyager.com

FIGURES In Focus

Figure News and Previews

More of the Same!

Presented by Andy Renshaw

It already seems that 2019 is going to be a great year for aficionados of figures, busts and dioramas, as some of the rumours coming from within the industry sound very exciting. We will of course bring you as much detail as we can as the month progresses, but for now, here's a look at what's new and up and coming and remember to tell you vendor you saw their products in SMMI!



Scale 75

British Tanker

Manufacturer: Scale 75
Scale: 1:35
Kit Type: Cast resin
Kit Number: SW35-039
Sculptor: TBC

British Troops

Manufacturer: Scale 75
Scale: 1:72/1:48
Kit Type: Cast resin
Kit Number: SW48-010/SW72-010
Sculptor: TBC

• www.scale75.com



Djitis Production

German Tank Commander

Manufacturer: Djitis
Production
Scale: 1:35
Kit Type: Cast resin
Kit Number: TBC
Sculptor: TBC

Syrian SDA Fighter

Manufacturer: Djitis
Production
Scale: 1:35
Kit Type: Cast resin
Kit Number: TBC
Sculptor: TBC

• www.djitisproduction.free.fr



ON THE SIDE

Masterbox

Screaming Eagles Europe 1944

Manufacturer: Masterbox
Scale: 1:35
Kit Type: Plastic injection moulded
Kit Number: MB3574
Sculptor: N/A

• www.mbltd.info
• www.creativemodels.co.uk



Screaming Eagles,
101st Airborne (Air Assault) Division, Europe, 1944-1945

Rado Miniatures

W-SS Tanker POW, 1944-45

Manufacturer: Rado Miniatures
Scale: 1:35
Kit Type: Cast resin
Kit Number: RDM35022
Sculptor: Radek Pituch



British Trooper w/Lee Enfield #4, 1943-45

Manufacturer: Rado Miniatures
Scale: 1:35
Kit Type: Cast resin
Kit Number: RDM35023
Sculptor: Radek Pituch

Also available as

RDM35023 British trooper w/W-SS Tanker
POW Set

• www.radominiatures.com





ON THE SIDE

Tank

Russian Military Driver 90s-2000s

Manufacturer: Djitis Production

Scale: 1:35

Kit Type: Cast resin

Kit Number: T-35236

Sculptor: TBC



Russian Officer GRU 90s-2000s

Manufacturer: Tank

Scale: 1:35

Kit Type: Cast resin

Kit Number: T-35237

Sculptor: TBC



Spetsnaz GRU (Dagestan 1999)

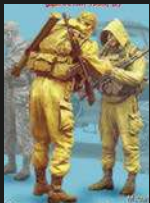
Manufacturer: Tank

Scale: 1:35

Kit Type: Cast resin

Kit Number: T-35238

Sculptor: TBC



Soviet Infantry (Prague 1968, Operation 'Danube')

Manufacturer: Tank

Scale: 1:35

Kit Type: Cast resin

Kit Number: T-35239

Sculptor: TBC



Soviet Infantry II (Prague 1968, Operation 'Danube')

Manufacturer: Tank

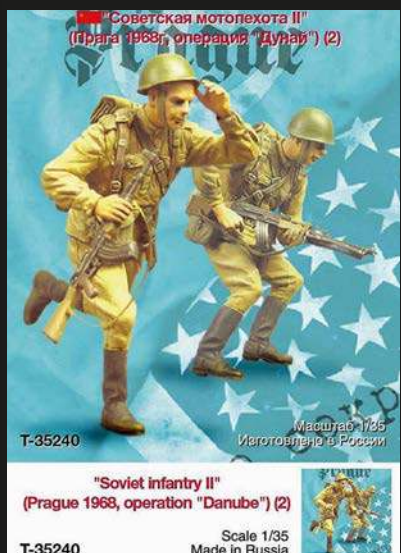
Scale: 1:35

Kit Type: Cast resin

Kit Number: T-35240

Sculptor: TBC

• www.models-hobby.com



Alpine Miniatures

World War II US Infantry Winter

Manufacturer: Alpine Miniatures

Scale: 1:35

Kit Type: Cast resin

Kit Number: 35259

Sculptor: Taesung Harmms

World War II US Jeep Passenger

Manufacturer: Alpine Miniatures

Scale: 1:35

Kit Type: Cast resin

Kit Number: 35260

Sculptor: Taesung Harmms



World War II US Infantry Winter Set

Manufacturer: Alpine Miniatures

Scale: 1:35

Kit Type: Cast resin

Kit Number: 35261

Sculptor: Taesung Harmms

World War II US Jeep Crew Set

Manufacturer: Alpine Miniatures

Scale: 1:35

Kit Type: Cast resin

Kit Number: 35261

Sculptor: Taesung Harmms

• www.alpineminiatures.com



Mitches Military Models

SEAL-V Bust Set

Manufacturer: Mitches Military Models

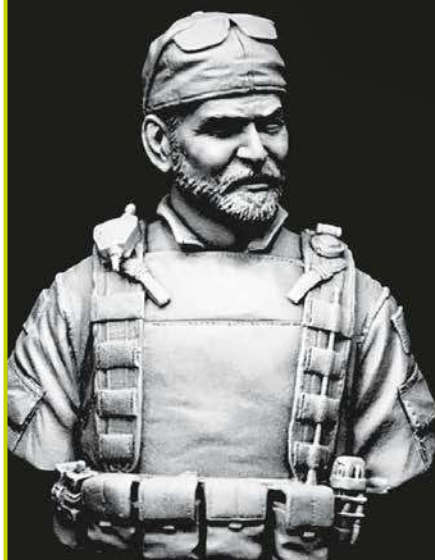
Scale: 200mm

Kit Type: Cast resin

Kit Number: TBC

Sculptor: Pavel Ovecka

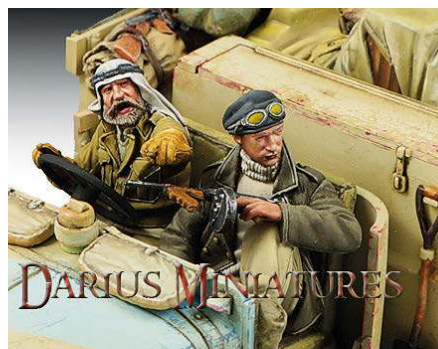
• www.mitchesmilitarymodels.co.uk



Darius Miniatures

F35011 - 1:35 The Long Range (LRDG) Desert Patrol, Figures and Accessories
F35012 - 1:35 LRDG Patrol (2 Figures), Set 1
F35013 - 1:35 LRDG Patrol, (2 Figures) Set 2
F35014 - 1:35 Driver CHEVROLET, L.R.D.G./ S.A.S.
F35015 - 1:35 LRDG British Soldiers (1)
F35016 - 1:35 LRDG British Soldiers (2)
F35017 - 1:35 LRDG, British Soldiers (3)

● www.dariusminiatures.com



Andrea Miniatures

Purple Heart - US Marine 1945

Manufacturer: Andrea Miniatures
Scale: 1:16/1:35/1:48/1:72
Kit Type: Cast resin and white metal
Kit Number: PH16-F001/ PH35-F001/
PH48-F001/ PH72-F001
Sculptor: TBC

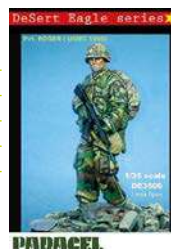
● www.andreausa.com



Paracel

Pvt Roger

Manufacturer: Paracel
Scale: 1:35
Kit Type: Cast resin
Kit Number: DE 3506
Sculptor: Giang Xuan Le



PVT Bucky

Manufacturer: Paracel
Scale: 1:35
Kit Type: Cast resin
Kit Number: DE 3507
Sculptor: Giang Xuan Le

Also available as DE 3508 BO
● www.paracelminiatures.com

1/35 scale

DE3507

1 resin figure



ON THE SIDE Historex Agents

Black Cohort Reaper - Puma

Manufacturer: DG Artwork
Scale: 75mm
Kit Type: Cast resin
Kit Number: DG75F013
Price: £36.00



Black Cohort Reaper - Leopard

Manufacturer: DG Artwork
Scale: 75mm
Kit Type: Cast resin
Kit Number: DG75F014
Price: £36.00



SS Panzer Commander Normandy 1944

Manufacturer: Young Miniatures
Scale: 1:10
Kit Type: Cast resin
Kit Number: YM1876
Price: £46.00



SS Panzergrenadier 1944-45

Manufacturer: Alexandros Models
Scale: 120mm
Kit Type: Cast resin
Kit Number: AXWW104
Price: £59.95



French Infantryman Chauchat MG Gunner 62nd Regiment

Manufacturer: John Smith Modelbau
Scale: 1:10
Kit Type: Cast resin
Kit Number: JS32BCG
Price: £45.45



Airborne Heads #2

Manufacturer: Resicast
Scale: 1:35
Kit Type: Cast resin
Kit Number: R355535
Price: £7.60



ON THE SIDE

The Bodi

German Panther Crewman World War II #1

Manufacturer: The Bodi

Scale: 1:35

Kit Type: Cast resin

Kit Number: TB-35134

Sculptor: TBC



German Panther Crewman World War II #2

Manufacturer: The Bodi

Scale: 1:35

Kit Type: Cast resin

Kit Number: TB-35135

Sculptor: TBC

Also available as TB-35136 - German Panther Crew World War II

German Cooking Soldier World War II

Manufacturer: The Bodi

Scale: 1:35

Kit Type: Cast resin

Kit Number: TB-35144

Sculptor: TBC

● www.thebodi.eu



Geko Models

British Infantry in Combat 2010-2016 – Set #1

Manufacturer: Geko Models

Scale: 1:35

Kit Type: Plastic injection moulded

Kit Number: 35GM0015

Sculptor: TBC

● www.geko-models.com

British Infantry in Combat Circa 2010-2016 Set 1



Panzer Art



FI35-033 – 1:35 Waffen-SS NCO Normandy 1944

FI35-034 – 1:35 Waffen-SS Soldier Normandy 1944

FI35-035 – 1:35 Waffen-SS Normandy Set

FI35-036 – 1:35 Soviet Assault Engineers Officer

FI35-037 – 1:35 Soviet Tank Commander

FI35-038 – 1:35 Soviet Officers Briefing Set



FI35-039 – 1:35 Waffen-SS MG-42 Gunner

FI35-040 – 1:35 Waffen-SS MG-42

Ammunition Carrier

FI35-041 – 1:35 Waffen-SS MG-42 team set

FI35-042 – 1:35 Soviet Assault Engineer #1

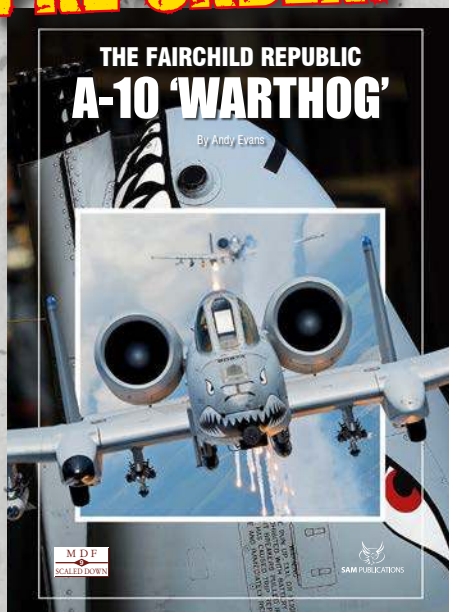
FI35-043 – 1:35 Soviet Assault Engineer #2

FI35-044 – 1:35 Soviet assault Engineers Set

● www.panzerart.pl

SAM Bookshop

PRE-ORDER!

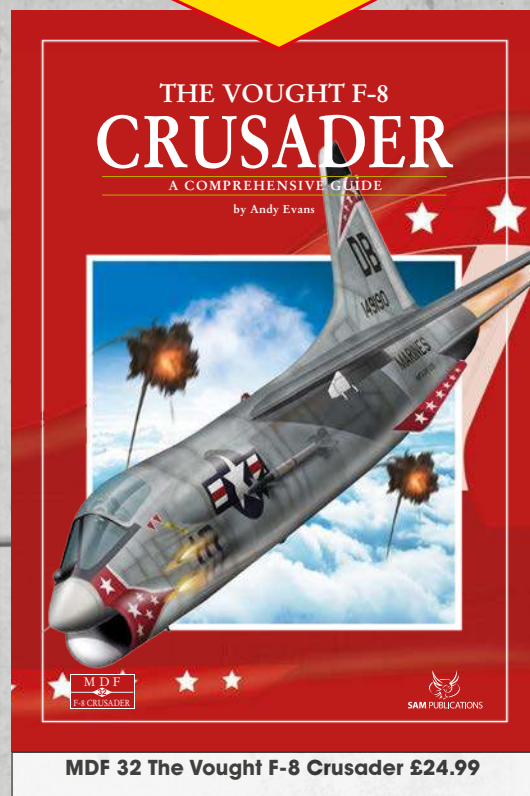


The story of the powerful A-10 is told in this new MDF Scaled Down from SAM Publications, and in the words of the 'Warthog community' – 'Go Ugly Early'!

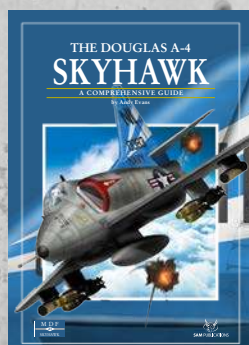
**MDF
SCALED DOWN**

MDF SD 9 The Fairchild Republic A-10 'Warthog' £14.99

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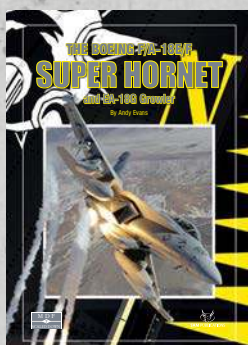
MDF 32 The Vought F-8 Crusader £24.99



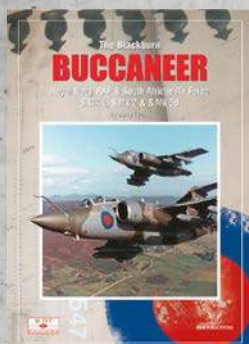
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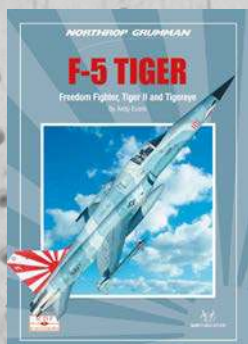
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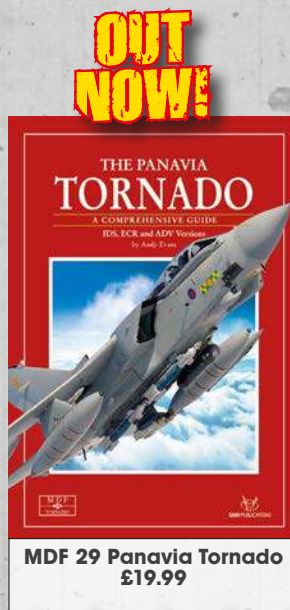
MDSD 6 Blackburn Buccaneer £14.99



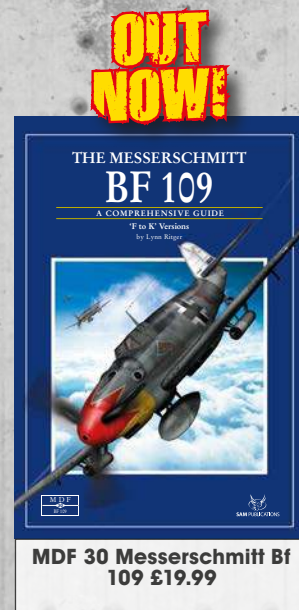
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Miniature Armoured Fighting Vehicles Association

MAFVA exists to promote and interest in AFV's and their associated equipment, and to act as a non-profit making organisation for the collection and dissemination of information. We try to answer queries and seek sources of information for our fast growing international membership, and to encourage correspondence between those with similar interests. The interests within MAFVA run from World War One to the present day, although a greater emphasis is centred on the Second World War. The majority of members make and/or collect models, and there are many who only gather information on military subjects, whilst others work on, or even collect full sized military vehicles. In addition to this we aim to provide our members with a quality bi-monthly magazine 'Tankette'. Local branches are being continually formed both in the UK and overseas, and are encouraged to hold meetings, displays and competitions to enable their members to get more out of their hobby, by meeting others with similar interests and to share information and expertise.



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For more information or details on joining MAFVA please contact the Membership Secretary: Neil Wharton, MAFVA
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Current subscription rates are:

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Rest of the World (Airmail) £33

■ www.mafva.net

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THE MINIATURE ARMOURD FIGHTING VEHICLE ASSOCIATION

Annual show
and competition

Sunday 16th June 2019
The Burgess Hall
Westwood Road
St. Ives, Cambridgeshire
PE27 6WU



Open 10.00 – 16.00

Entry: MAFVA members: Free
(with current subscription)

Public: £1

Accompanied children under 16: Free

Concessions: Free

Come to the U.K's premier
armour modelling event.
Competition with many
classes.
Trade stands and model clubs
in attendance.



THE MINIATURE ARMOURD FIGHTING VEHICLE ASSOCIATION

Annual show
and competition
Sunday 16th June 2019
The Burgess Hall
Westwood Road
St. Ives, Cambridgeshire
PE27 6WU



The Model Competition has a wide number of classes for all scales covering individual models and dioramas, including Junior and Open Classes.



The show is attended by club displays and traders from around Europe selling a whole variety of modelling equipment from kits in plastic, resin and metal to accessories, books and conversions and other after-market products of all types - if you need it for military modelling it's here!



WARSHIPS In Focus



Warship News and Previews

Showcase Your Models

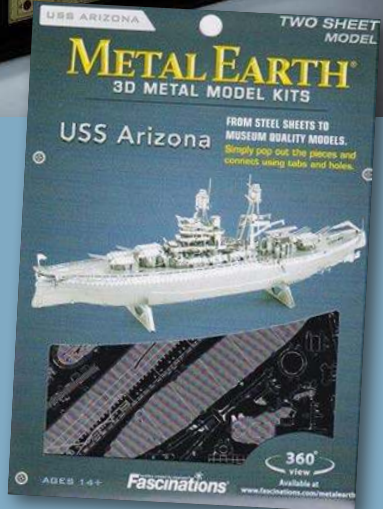
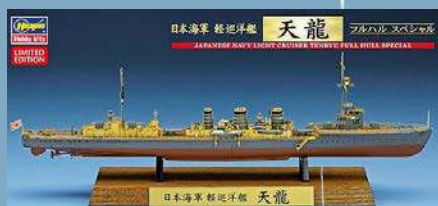
Hyun Soo Kim adds light, cover and inspiration to his waterline builds



Hasegawa

HS122 – 1:700 IJN Light Cruiser Tenryu
HS123 – 1:700 IJN Light Cruiser Tatsuta

• www.hasegawa.com
• www.hobbyco.com



Metal Earth

MMS097 – USS Arizona

• www.fascinations.com

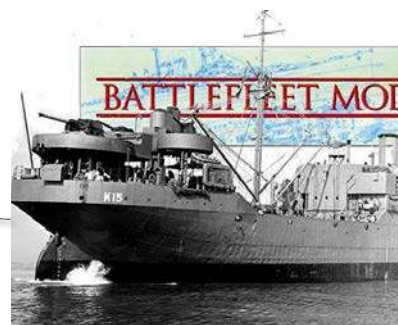
ON THE SIDE Battlefleet Models

BFM-711 –
1:700 AK-15
Sirius

35066 – 1:350
US Coast
Guard Cutter
'Itasca' 1938

35065 – HMS
Gorleston 'Banff' Class Sloop 1943

• www.battlefleetmodels.com



Revell

850318 – USS Oriskany

• www.rvll.de/en



Pit Road

PITW2000 – 1:700 – IJN Yamato

• www.pitroad.s232.xrea.com



ON THE SIDE

Combrig

70377 – 1:700 Corvette Pr. 21631 Velikiy Ustyug, 2014

70485 – 1:700 Light Cruiser SMS Saida, Austro-Hungary, 1914

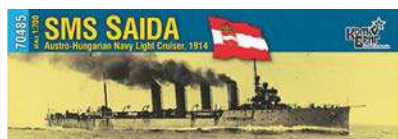


70162 - 1:700 Destroyer SMS S 14, 1912

35177 – 1:350 Raptor High-Speed Patrol Boat

35108 – 1:350 - Corvette Pr. 21630 Astrakhan

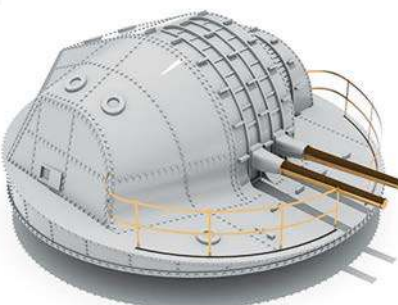
• www.combrig-models.com



L'Arsenal

AC20013 – 1:200 Yamato Type 89 Turret with 127mm Guns

• www.larsenal.com



Fujimi

10439679 – 1:3000

General Warship Parts

10445059 – 1:3000 Kure

Gantry Crane

FUJ 40139 – 1:3000 Kure

1945 Remnant Set

FUJ46020 – 1:700 Super

Yamato Class Battleship Kii

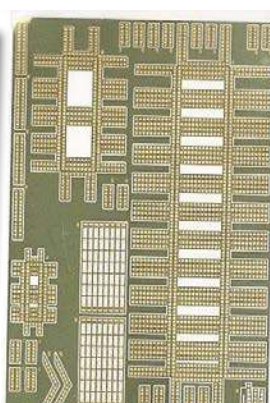
FUJ60050 – 1:350 IJN

Battleship-Carrier Ise

FUJ60054 – 1:350 IJN Battleship-

Carrier Hyuga

• www.fujimi.com



Five Star

第一號型



Sokuten



720017 - 1:700 IJN

Minesweeper No.101

720009 - 1:700 IJN

Auxiliary Minesweeper

Sokuten

720010 - 1:700 IJN Minesweeper No.1

• www.5starmodel.com

二戰日本海軍

第101號型

掃海艇

WWII IJN

Type NO.101

Minesweeper

FS720017

1/700



第101號型



掃海艇

樹脂模型套件
Resin Kit

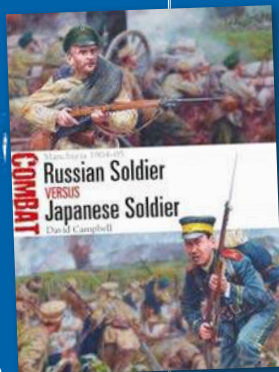
BOOKS IN FOCUS

Osprey Publishing

Panzerartillerie

Publisher: Osprey
Author: Thomas Anderson
ISBN: 9781472820242
Format: Hardback
Price: £30.00

The German Panzerartillerie was one of the key components of the Panzer divisions that were the spearhead of the German forces in the years when they overran most of Western Europe and reached as far as the gates of Moscow in the East. Warfare in the age of Blitzkrieg required fast-moving, mobile artillery that could support forward units at the front line, and the Panzerartillerie provided that for the Wehrmacht. The Allies had no answer or equivalent to them until the US entry into the war. Drawing on original material from German archives and private collections, including some images that have never been published before, German armour expert Thomas Anderson explores the formation and development of this force from its early days in the 1930s, through the glory days of Blitzkrieg warfare to its eventual decline in the face of the challenges of the Eastern Front.



Russian Soldier v Japanese Soldier

Publisher: Osprey
Author: David Campbell
ISBN: 9781472828125
Format: Softback
Price: £13.99

At the turn of the 20th century, the region of Manchuria sat atop a potentially catastrophic political fault line; the ancient strength of China was crumbling, leaving opportunities for both Russia and Japan to claw out new territories from the edges of that dying empire. Russian pride would contend with Japanese ambition in a



conflict that ushered in the age of massed armies fighting on battlefields that were being redefined by the new tools of war such as newer, larger artillery pieces, and the use of machine guns in pitched battles. The vast, but over-stretched Russian Army was expected to steamroller its far smaller opponent, but the aggressiveness and zeal of the more modern Japanese military confounded expectations.

Examining these two armies in detail, this fully illustrated study tells the story of how these two empires clashed in the Russo-Japanese War, heralding a new phase in modern warfare as World War I loomed on the horizon.

Norwegian Waffen SS 1941-45

Publisher: Osprey
Author: Massimiliano Afiere
ISBN: 9781472834393
Format: Softback
Price: £11.99

Following the Nazi occupation of Norway in 1941, the Waffen-SS began recruiting volunteers to serve in their ranks. Initially formed into small volunteer units, these developed into large divisions by 1943, referred to as 'Legions' in Nazi propaganda. Early volunteers were promised that they would not leave Scandinavia and that they would serve under native Norwegian officers - but after the German invasion of the Soviet Union they were deployed to the Leningrad front alongside Dutch and Latvian units, in the 2nd SS Infantry Brigade. These units combined to form the nucleus of a whole regiment within the new 11th SS Volunteer Panzergrenadier Division 'Nordland'. Fully illustrated with detailed artwork depicting the uniforms and equipment of the volunteer soldiers, this fascinating study tells the little-known story of the Norwegians who fought with the SS in World War II.

• www.ospreypublishing.com

BOOKS
The Latest Armour Books Reviewed

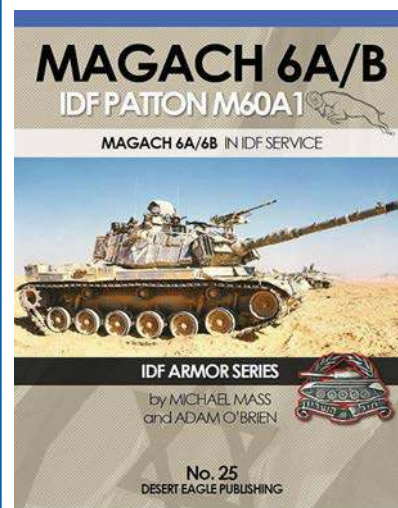
ON THE SIDE

Magach 6A/B (M60A1/A1E2) in IDF service

M60A1 in IDF Service Part 3

Author: Michael Mass and Adam O'Brian

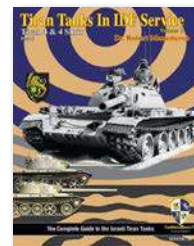
Publisher: Desert Eagle Books



Tiran Tanks in IDF Service

Author: Dr Robert Mansherob

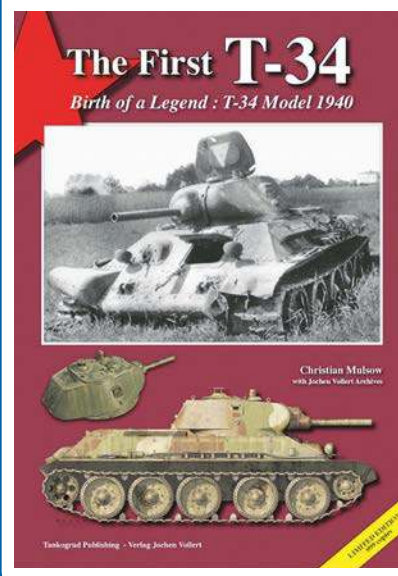
Publisher: Sabinga Martin



The First T-35 – Birth of a Legend

Author: Christian Muslow

Publisher: Tankograd

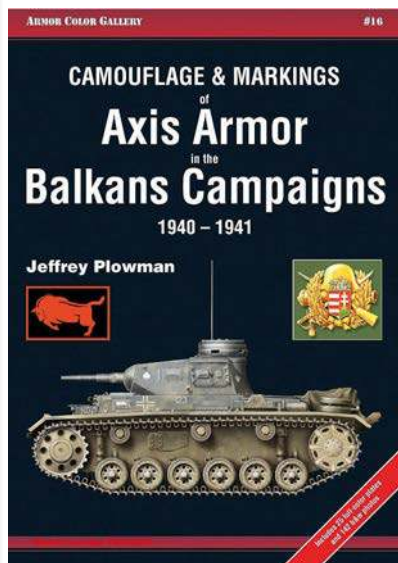




ON THE SIDE

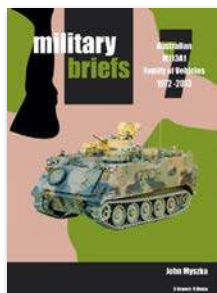
Camouflage and Markings of Axis Armor in the Balkans Campaigns 1940–1941

Author: Jeffery Plowman
Publisher: Model Centrum



Military Briefs No.7

Australian M113A1 Family of Vehicles 1972–2013
Author: John Myszka
Publisher: Heaust



Stuart Tank Volume 1

Legends of Warfare
Author: David Doyle
Publisher: David Doyle Books

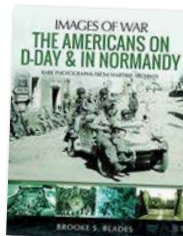


Pen and Sword

The Americans on D-Day and in Normandy

Publisher: Pen and Sword
Author: Dr Brooke S
Blades
ISBN: 9781526743961
Format: Softback
Price: £15.99

The experiences and achievements of the United States land, sea and air forces on 6 June 1944 and the weeks following have been deservedly well chronicled. Omaha Beach saw the fiercest fighting of the whole 'Overlord' invasion and the opposition faced in the US sector shocked commanders and men at all levels. The outcome was in the balance and, thanks to the courage and determination shown by the attackers, game-changing failure was narrowly averted. This superb Images of War book examines, using contemporary and modern images and maps, the course of the campaign and its implication for both the American troops and the civilian population of the battle zone. These revealing images, both colour and black and white, are enhanced by full captions and Blades thoroughly researched text. The result is a graphic reminder of the liberation of Northern France and the extraordinary sacrifice made by men not just of the United States military but the other Allied nations.



M1 Abrams

Publisher: Pen and Sword
Author: David Doyle
ISBN: 9781526738790
Format: Softback
Price: £16.99

The M1 Abrams has been the principle main battle tank of the US military since 1980. Conceived to counter the threat of a massive Soviet armoured incursion in Europe, the tank gained considerable fame during the Persian Gulf War of 1991, and its combat record has

continued to climb.

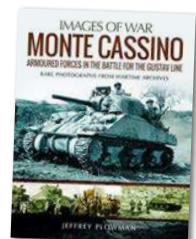
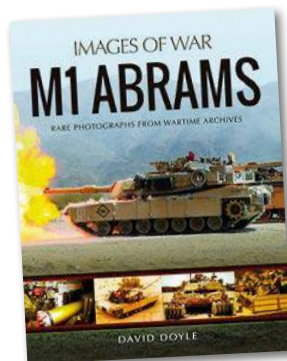
With such a long service life, the Abrams has undergone continual improvements and upgrades, which are illustrated in great detail in this volume. The unique features of the various models are detailed in stunning colour photos, and the combat use of these fearsome vehicles is richly illustrated through previously unpublished images.

Monte Cassino

Publisher: Pen and Sword
Author: Jeffery Plowman
ISBN: 9781526718945
Format: Softback
Price: £14.99

The battles fought between the Allied armies and the German Wehrmacht at Monte Cassino in 1944 were key episodes in the protracted Italian campaign, and the eventual Allied victory was a decisive step in the wider war to liberate Europe from German occupation. Much has been written about Cassino, but few books have chosen to tell the story through photographs – to give a visual insight into the fighting and the forces involved, the conditions in which they fought, and the landscape around the Monte Cassino abbey which became a battlefield. That is why Jeffery Plowman's photographic history is of such value. Using almost 200 wartime images, many of which have not been published before, he gives a graphic impression of the realities of the fighting as it was experienced by the troops on the ground. He focuses on the tanks – the array of armoured vehicles deployed by both sides which played a critical role. This aspect of Cassino has rarely been covered in such detail and in such a vivid way. The book will be of special interest to modellers and historians of armoured warfare, but it will also appeal to readers who have a more general interest in the Italian campaign.

● www.penandsword.co.uk

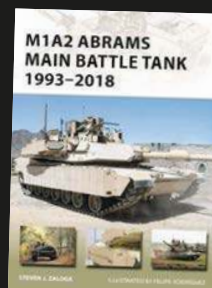


Osprey Publishing

M1A2 Abrams Main Battle Tank

Publisher: Osprey
Author: Steven J Zaloga
ISBN: 9781472831781
Format: Softback
Price: £11.99

Since the Gulf War, the Abrams tank has undergone a transformation, while fighting in conflicts across the world. Its M1A1 and M1A2 variants have seen great improvements made to this iconic tank, including in fire-control, armour protection, and thermal imaging technology. Involvement in the conflicts in Iraq and Afghanistan necessitated a number of upgrades and modifications as the United



States fought two of its longest wars. Recent years have seen new variants of the series such as the ABV Assault Breacher Vehicle and M104 Wolverine Heavy Assault Bridge. Over the past few decades, the M1A1 Abrams has also been extensively exported and is license produced in Egypt. The long-awaited follow-up to NVG 2 M1 Abrams Main Battle Tank 1982–92 (1993), this fully illustrated study examines the Abrams tanks' last quarter-century of service with both the United States and its various foreign operators with a focus on its combat history.

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Model by David Parker



FIELD REPAIRS

Scale 1:35 / M60A3 With Engine Set

Engine Repairs

Field Maintenance

LUIGI GRAFFI BUILDS THE 1:35 TAMIYA M60A3 WITH A VERLINDEN PRODUCTIONS ENGINE SET

TAMIYA

EVEN FOR AN OLD KIT, THE TAMIYA M60 IS STILL AN EXCELLENT MODEL TO BUILD, AND YOU EVEN GET THE parts for the A3 version in the box. The most complex work for me was to cutaway the engine covering and fashion an interior as I wanted to show the engine being worked on for repairs. By looking at my references I was able to also improve the look of the engine compartment and add other details to the engine itself for a more realistic look. For the engine I chose an excellent Verlinden Productions resin set, and I also replaced the kits vinyl tracks with a set from Friul Model.



M60A3

Manufacturer: Tamiya

Scale: 1:35

Kit Type: Plastic injection moulded

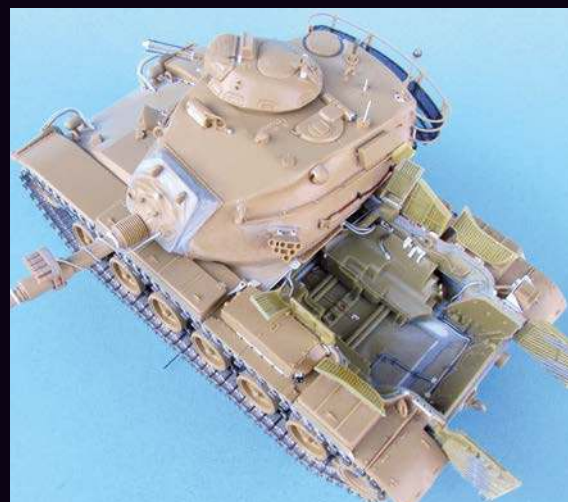
Kit Number: 340



RESEARCH

Introduced in 1960 the M60 was for many years the main battle tank of the American Army until 1980 when it was replaced by the M1 Abrams and finally withdrawn from service in 1997. The version featured here is the M1A3, which entered service in 1978 and was equipped with a new laser rangefinder, smoke gun, ballistic computer, a turret stabilisation system, thermal cannon protection and other small improvements.

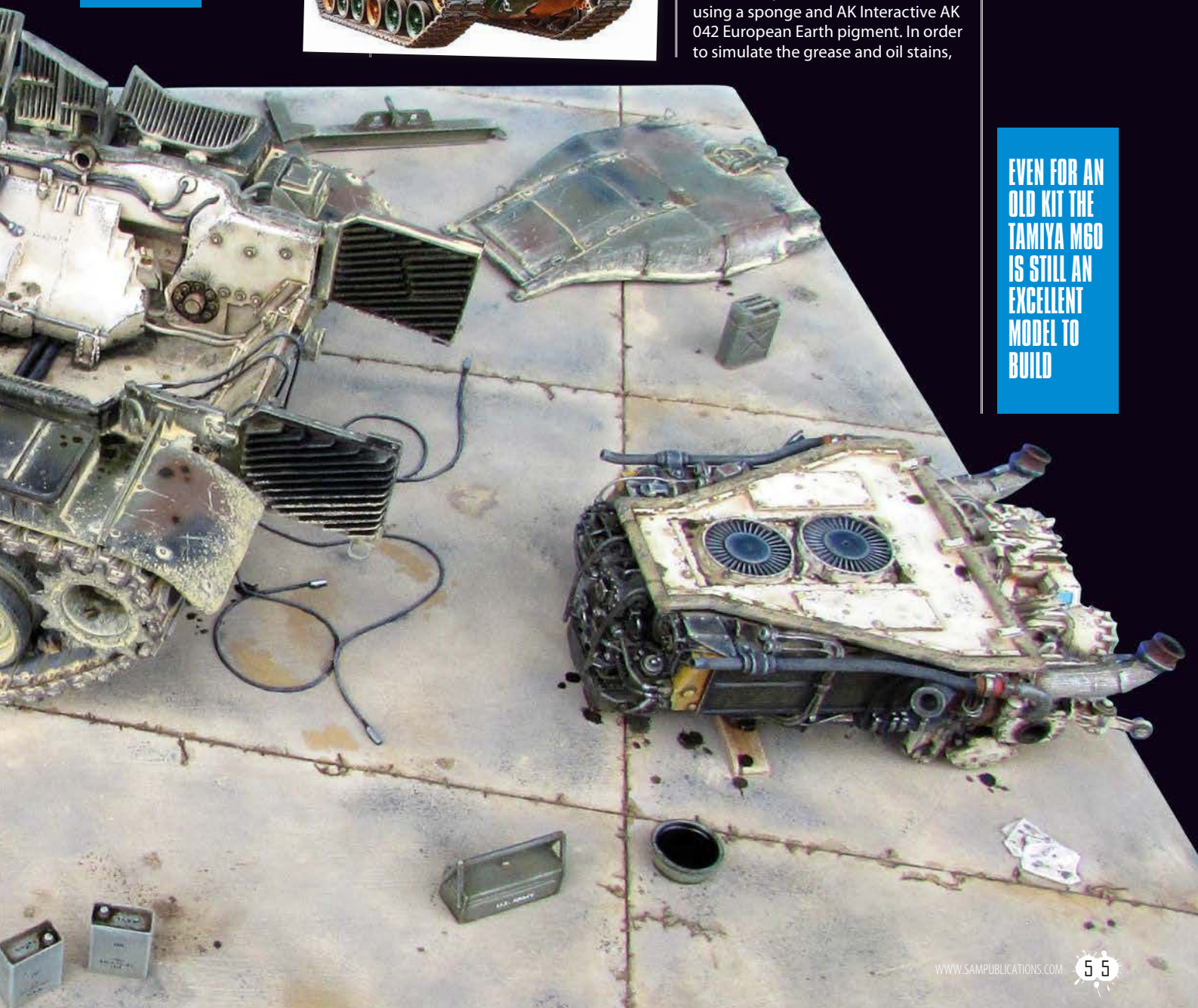
With all the construction complete I first added a coat of Humbrol Matt Light Gray 64 as a primer, then the model was painted with Humbrol Matt Army Green 102. To complete the three-tone US Army camouflage scheme I used Humbrol Brown 186 and Humbrol Matt Black 33. After waiting a few days, I started the weathering process with several bespoke oil mixes, each time removing any excess with a soft cloth. Next, I added some dry brushing, using Humbrol 102 lightened with White to highlight all the protruding



details of the vehicle. Then I used various Ochre and pastel powders to recreate the dry mud and the splashed earth on all the surfaces. I also at this point added more effects using a sponge and AK Interactive AK 042 European Earth pigment. In order to simulate the grease and oil stains,

The Tamiya kit builds really well

EVEN FOR AN OLD KIT THE TAMIYA M60 IS STILL AN EXCELLENT MODEL TO BUILD





FIELD REPAIRS

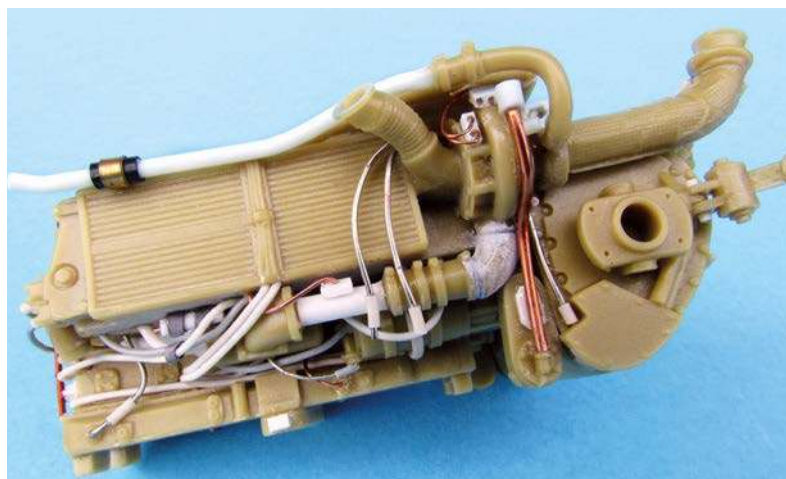
Scale 1:35 / M60A3 With Engine Set



Working on the engine compartment



...with extra detailing



The Verlinde engine.....



I added extra details to the turret

I utilised AK Interactive AK 014 Winter Streaking Grime and AK 084 Engine Oil.

After having previously painted the engine compartment, I lightly washed this with a diluted Dark Brown oil wash, and again used AK Interactive Streaking Grime and Engine oil to show fuel and

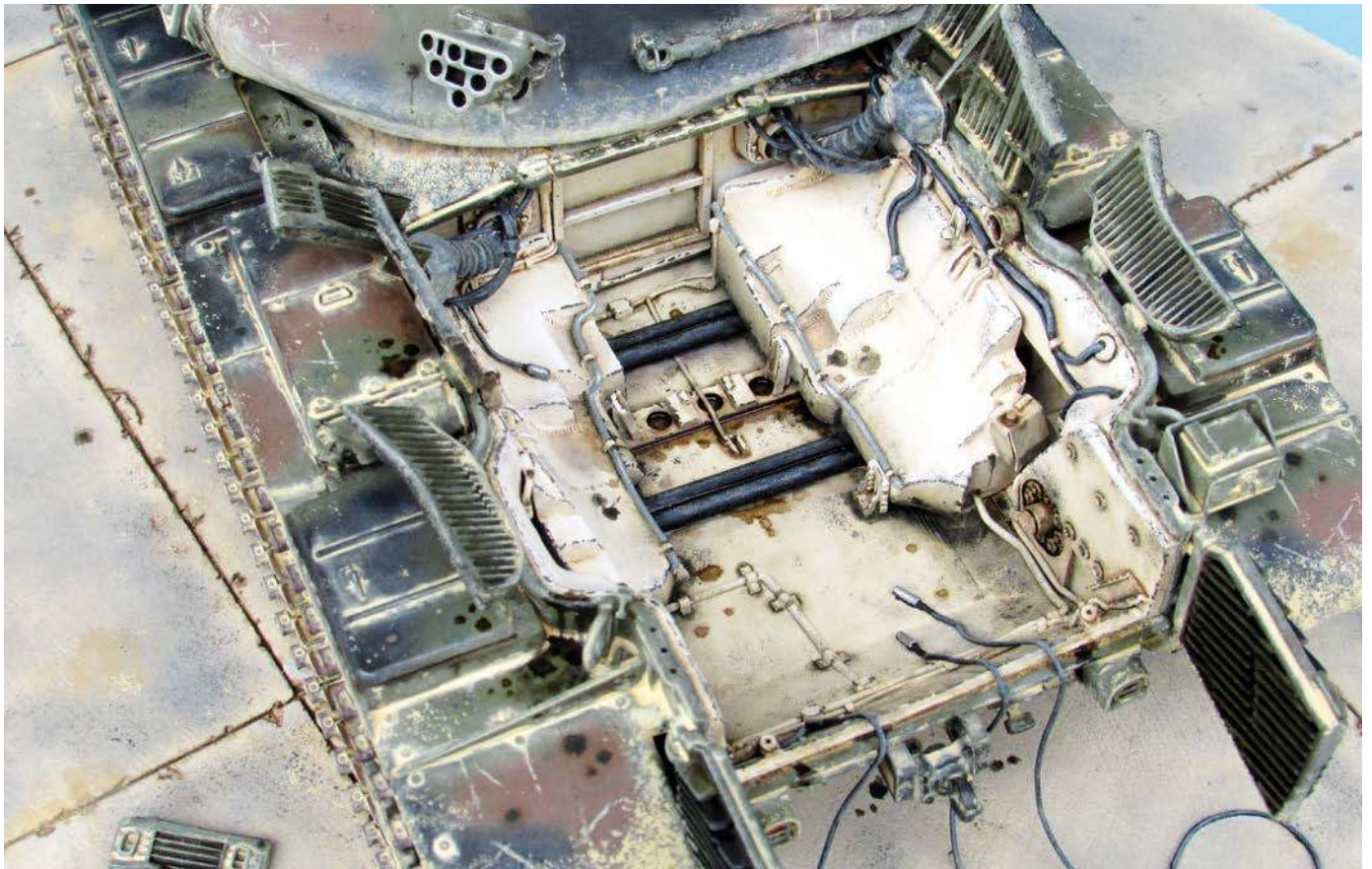
lubricant spills. I also added the effect of peeling paint using Humbrol Olive Drab 66. The engine was then carefully painted and weathered, a long job but one I thoroughly enjoyed! The tracks were painted with Humbrol Matt Chocolate 98 and once they were perfectly dry, they received a light wash



Friul Model tracks replaced the kit parts

FIELD REPAIRS

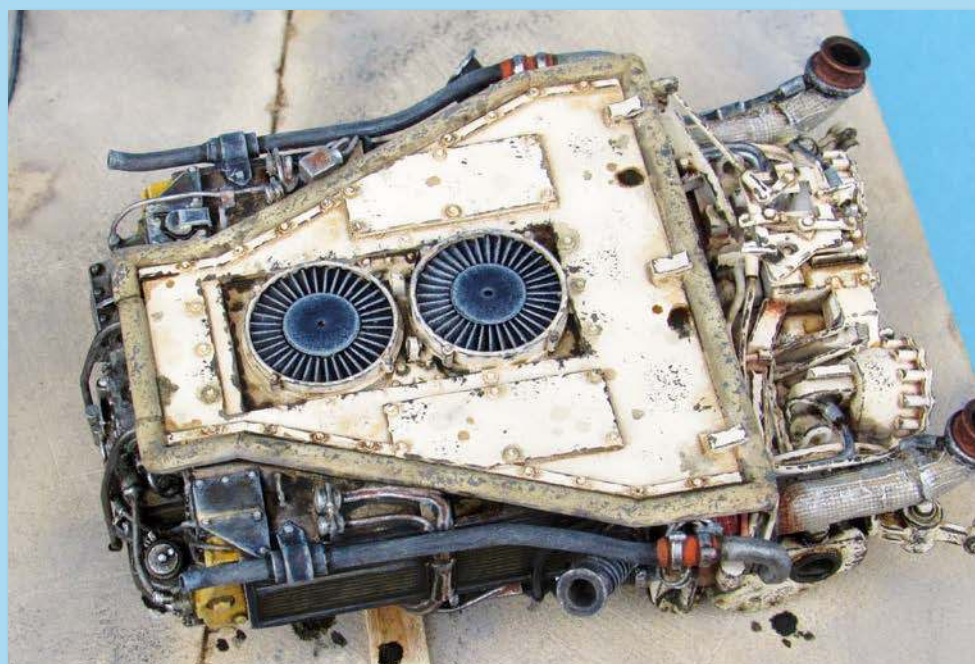
M60A3 With Engine Set





FIELD REPAIRS

Scale 1:35 / M60A3 With Engine Set



of AK Interactive Mud AK 016. Then after painting the rubber shoes with the Matt Black I simulated dust accumulated on them with the AK Interactive European Earth pigment mixed with solvent. The last step was to highlight the parts where the polished natural metal rubs against the tracks and this was done with a bit of very fine abrasive paper.

For the base, the concrete floor was created by gluing a sheet of thin Balsa wood onto a plywood base and then adding a layer of modelling putty over in and flattening it out. I then distressed and marked the base to resemble concrete. The all that remained was to add the tank and engine and my little scene was complete. [Military](#)



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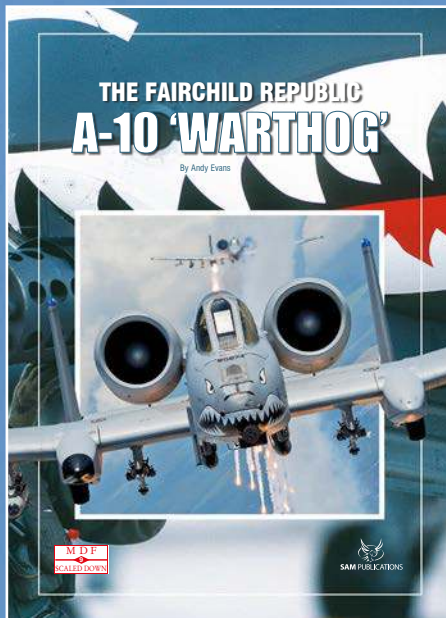
*When accompanied by an adult

The Fairchild Republic A-10 'WARTHOG'

By Andy Evans

COMING
SOON!

The A-10 'Warthog' owed its birth to two influences - the inadequacies of the Close Air Support aircraft used in Vietnam, and the need to counter Soviet armoured might in Europe. During the Vietnam War the Air Force regarded CAS as their domain but was hard pressed to find an aircraft with both the range and loiter capacity to fulfil this need. They did obtain quantities of the old but excellent piston-powered Douglas A-1 Skyraider originally developed for the Navy, which soon earned the appreciation of the ground-pounders by its ability to carry a huge warload, dish out and take punishment, and remain on station for an extended period of time. Late in the war the USAF shifted the CAS mission to the jet-powered A-7 Corsair II, which had been developed for a US Navy requirement for a carrier-based strike fighter to replace the A-4 Skyhawk. The Corsair was an excellent aircraft, but it was designed for the strike-interdiction role, not for the battlefield CAS mission. The USAF therefore began to put together an AX - 'Attack Experimental' program to develop a dedicated CAS aircraft that could do the job far better than the Corsair, match the Skyraider in warload and endurance, but be substantially faster while being extremely maneuverable. The aircraft would also need to be highly survivable through the use of armour and redundant systems, include twin engines and be armed with a fast-firing Gatling-type gun.



Cover for illustrative purposes only

The YA-10A was selected as the winner of a competitive evaluation on 18 January 1973 and led to a contract for the production of ten A-10A pre-production machines, fitted with the GE TF34 turbofan. The second and third preproduction machines were the first to be fitted with the fearsome GAU-8/A cannon and trial attacks with the cannon on old US M-48 tanks and Soviet T-62 tanks, obtained from Israel, were to put it simply, awesome. The GAU-8/A cannon all but tore the targets to shreds! The first preproduction aircraft was rolled out in late 1974, and the first production A-10 performed its initial flight in October 1975 following which it was handed over to the USAF

on 5 November. The A-10 was given the name 'Thunderbolt II' but this never stuck with the flight crews, the ugly nature of the aircraft soon earned it the nickname of 'Warthog', and so a legend was born! On the verge of retirement in the early 1990's the first Gulf War saw the Warthogs finest hour, so much so that the Air Force gave it a new lease of life, and one that seems set to continue to a while yet! The story of the powerful A-10 is told in this new MDF Scaled Down from SAM Publications, and in the words of the 'Warthog community - 'Go Ugly Early'!

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To Do Lists

PRESENTED BY JOHN TAPSELL

I WAS TALKING WITH A WORK COLLEAGUE RECENTLY AND WE GOT AROUND TO THE THORNY PROBLEM OF 'TO DO' LISTS. I

suspect everyone makes them in one form or another but how closely do you stick to them? My colleague was firmly of the opinion that she needs to try and complete the items on the list as soon as possible and not put any of the tasks off, no matter how boring or unpalatable they may be. Her argument was that if you keep ignoring an item on a list it becomes a 'thing' rather than a job. The more you avoid that 'thing', the bigger and scarier it becomes. It doesn't matter how small the task really is, the longer it is left, the harder it becomes to complete.

As a modeller I can relate to that argument so strongly. My shelf of shame always has several models on it in various stages of construction. Often, they only require a couple of evenings work to move them on to the next stage, or even to complete them but the longer they are left, the harder I find it to go back to them and finish what I started. Each year I start more models than I complete, or at least it seems that way at times. In the last column I listed several projects I was working on. I managed to complete both the Crusaders and the Pz 38(t) just in time for the Bolton show in mid-January and felt quite pleased with myself. Then I came across a couple of other unfinished projects tucked away in their boxes. Rather than start yet another project (always so tempting) I resolved to finish both of these kits first. I know there are a few others in a similar state in my collection but if I can get a couple finished off each time, then hopefully I can catch up with the backlog (hmmm, small chance of that I think...)

Thus, it was that I took a part-built IS-2 with me to the Bolton show. I knew I could finish off most of the remaining construction during the day if I concentrated on the task. Modelling behind the club stand is something that several of us do on a semi-regular basis. It serves a couple of purposes. Firstly, it gives us something to do during the day and prevents (or at least reduces) the temptation to start wandering the halls several times and buying yet more kits. Secondly it can provide an opportunity to start a conversation with the visitors. They are often interested in what we are doing and start asking questions about the kit we are working on or the technique we are employing. For me, these conversations are a vital part of making our hobby more accessible. Reading about a



technique or even watching it on a video isn't always the same as being able to talk with the modeller whilst they are working is much more immediate, whether it's within the confines of a private build-club, at your local club or when visiting a show. Even the most experienced modeller never stops learning and part of my enthusiasm for the hobby is precisely that – wanting to refine and develop my skills with



each project I take on.

The Bolton show was a case in point. I spent some time adding some cast texture to the IS-2. The real vehicle has a number of large cast components with a distinctive rough texture resulting from the sand moulds that are used. I was using a tried and tested technique, brushing liquid cement over the part and then gently stippling it with an old cut-down paintbrush. The cement slightly softens the surface of the plastic and that allows the texture to be created by the stippling action. It takes a little practice to get the technique right but it's very effective. Several people stopped and asked what I was doing, so I was able to give a practical demonstration and if I encouraged a couple of people to try something new and add another skill to their toolbox then it more than justifies the hassle of packing an extra box with tools and a kit into my car.

In fact, several of my shelf queens started life as show projects and that's part of the problem – you reach a point in a project where it becomes awkward to take it to a show and work on it, perhaps because it's ready to paint or because there are too many sub-assemblies and small parts that might go missing. Therefore, I tend to choose a new kit to take with me, something straightforward that I'm likely to build mostly out of the box. When I get back home it gets put on one side whilst I concentrate on the model on my bench and then it gets forgotten. Having said all that, as long as I'm building models, I'm happy but it would be nice to finish more of them occasionally and get some of those 'things' off my mind.

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SOVIET BALL TANK

Scale 1:35 / Sharotank

THIS KIT DEPICTS A 'WHAT IF' CONCEPT OF A SPHERICAL TANK OF THE TYPES CONSIDERED DURING THE INTER-WAR PERIOD. THE BENEFITS THOUGHT OF SUCH AN OFF-THE-WALL DESIGN WERE THAT THE WIDE WHEEL WOULD PROVIDE EXCELLENT OFF-ROAD CAPABILITY AND THE ABILITY TO CROSS LARGE DITCHES AND OBSTACLES. THE SHAPE WOULD ALSO MAKE THE VEHICLE AMPHIBIOUS WITH ITS LARGE WATER DISPLACEMENT CAPABILITY.

Having a Ball Sharotank

IWAN HUGHES BUILDS THE 'WHAT-IF' 1:35 MINIART 'SHAROTANK'



The interior section – looking a little like a hamster-wheel!



Comfort Zone

MINIART

THE ONLY VEHICLE OF THIS TYPE TO GET BEYOND THE DRAWING BOARD WAS THE GERMAN DESIGNED AND BUILT 'Kugelpanzer' which is on display at the Kubinka Museum near Moscow. It would be designed on a 'gyroscopic type theory', similar to the 'Segway' nowadays with the weight being concentrated on the bottom centre where the engine was located. This vehicle concept would have been propelled by a large drive wheel located at the front centre which would have turned the large tyre. This vehicle has room for a crew of four;

a driver, rear facing machine gunner, forward facing machine gunner and two gunners for the main armament on the top deck.

This type of 'what if' vehicle kit is normally miles outside of my comfort zone and not one I would naturally choose, so I was apprehensive about the project. This was also my first experience with the MiniArt

brand. The kit itself comes from MiniArt on twenty-four light grey sprues, one of which is clear parts. There is an

extensive decal sheet with six fictional options (four Soviet, one captured German and one Polish). The instruction sheet is a glossy cover booklet with colour painting guides and a conversion chart for numerous paint brands. The assembly for the kit is



➤ Soviet Ball Tank 'Sharotank'

Manufacturer: MiniArt

Scale: 1:35

Kit Type: Plastic Injection moulded

Kit Number: 40001

over forty steps and is made up of very clear black and white photographs of each step. The kit has a full and detailed interior which can be viewed through two large hatches on the hull, one either side. The first few steps of the build concentrate on the engine, crew positions and framework for the vehicle interior. The engine has wonderful detail and all of the parts have been sharply moulded. The crew positions each have a

seat; however, I'm not convinced they are 1:35, as I believe they are slightly small. So, if you're planning on putting figures with this model, you may want to test fit them first.

The 'half way' point of the build was signified when the large internal framework which housed the engine, crew positions,

driving wheel and rollers was complete. The next stage was to complete the individual hull halves which sit either side of the large tyre. Each hull half has ammo racks for the machine guns and main armament complete with shells and ammo boxes, a fan cooling system, the fuel cells and the ball mounts for the weaponry. The machine guns and main armament sit in a moveable ball joint; however, I found the fit of the ring that held it in place a bit tight, so I decided to glue them in static to stop it popping loose once

THERE IS AN EXTENSIVE DECAL SHEET WITH SIX FICTIONAL OPTIONS



SHAROTANK

Scale 1:35 / Soviet Ball Tank



You get some really nice detailing on the inside....



...including armament and shells



The exterior was painted with Mission Models colours

Brown Blue Wash AK070 in a 1:1 mix with White Spirit to cover the white parts of the interior to dull down the brilliant white appearance. I then applied a heavy coat of AK Interactive Streaking Grime AK012 around the engine and running gear to simulate grease and a light dusting of Vallejo Natural UMBER Pigment 73.109 to simulate accumulated dirt.

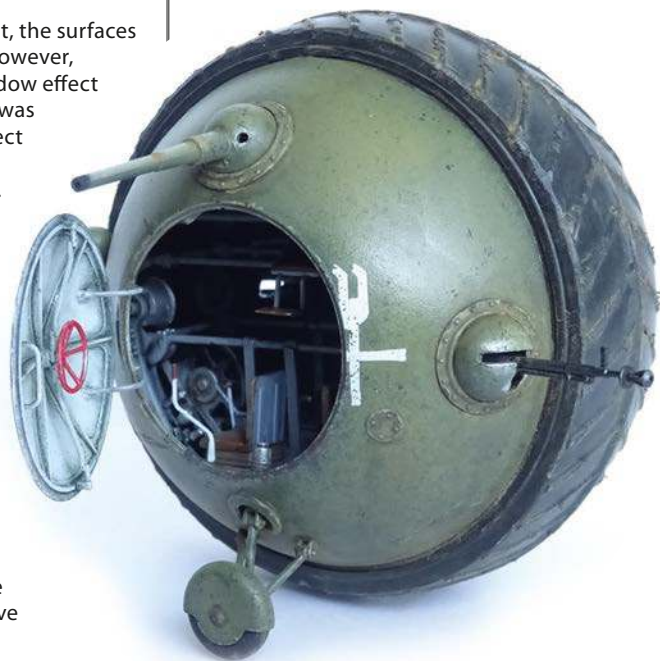
I used Mission Models US Army Olive Drab Faded 3 MMP-022 to paint the exterior of the

I glued the hull together! The weapons all have a good level of detail and are sharply moulded. Both machine guns have an ammunition box attached and a spent casing catch bag. The main armaments have detailed breaches and spent cases catch bags. The model has the option to have the two large hatches open or closed with nice detail on the inside of each large hatch. With such brilliant interior detail, I opted to leave one open and one closed; this was to allow the interior detail to be seen and to be able to view the vehicle 'on the move' from the other side.

Before attaching the hull pieces to the main framework, I gave the entire kit a coat of Vallejo Black Surface Primer 73.602. I then used AK Interactive White Primer AK177 to do some pre-shading on the hull exterior. As this was a spherical vehicle, it was a great opportunity to add some depth to the vehicle using this technique. To emphasise shadows inside the vehicle, I painted the entire interior with Black Primer. I then applied the White Primer;

however, only from the position of where the open hatch would be. I did this so that from the hatch viewpoint, the surfaces facing you would be white; however, behind them would be a shadow effect caused by the Black Primer. I was very happy with how this effect turned out and it gave the interior a great deal of depth.

I used a selection of Vallejo paints to detail the interior of the vehicle. When the interior of this vehicle is viewed, it appears very cramped and crew members would have had to push and squeeze to get into their positions, so because of this, I used AK Interactive True Metal Steel AK457 to dry brush the edges of metalwork, where I would expect there to be wear of the paint. I then used AK Interactive



SOVIET BALL TANK

Sharotank



hull. For the first couple of thin coats, I applied my paint through the airbrush with no thinner; this gives the surface a rough textured appearance. Once this was dry, I used the same colour; however, this time thinned 2:1 paint to Mission Models thinner MMA-002 and applied another three coats to complete the outer colour. At this point, I glued the hull sides to the main

frame and attached the dolly-wheels. Next, I painted the tyre using Mission Models NATO Black MMP-035 and glued this piece on to complete the basic build. Something wasn't sitting right with me, and I realised that the tyre was 'pristine' in appearance and didn't look right. To remedy this, I attacked the wheel using a selection of sharp and rounded files to chip away the grooves and create what I believed to be a more realistic look of a tyre that had crossed the battlefield! I decided to add some slight damage to the hull to break up the smooth spherical appearance. To do this, I created thin channels in the hull using a file. Then I made some more that followed the curve of the wheel to simulate items being dragged around the hull by the wheel, and some others horizontally

from brush damage. I decided to apply the decals depicting a 'Captured Combat Vehicle, Wehrmacht Unit, Eastern Front 1944.' The decals were of outstanding quality which adhered perfectly to the kit.

For the weathering phase, I used Vallejo Olive Green Wash 76.519 to cover the hull and Streaking Grime to accentuate the bolts, weapon mounts and panel covers. I then used a sponge and Vallejo Black Grey 70.862 to create fine chipping around the hatches and the hull. I used Vallejo Olive Green 70.967 to create some of the larger chips and scratches and then the Black Grey and Vallejo Hull Red 985 to add depth and a rust effect to some of the larger chips. I used these paints to detail the damage I'd created with the file on the hull also. Next, I used the True Metal oil paint to dry-brush the hatch edges and the edges of the weapon and viewing ports. My last piece of weathering was to add the Natural Umber Pigment, mixed with water over the tyre. Once dry, the excess was brushed away using a short and soft bristle brush to leave a residue in the creases. I thoroughly enjoyed building this kit despite my initial hesitation, and you get some great paint scheme options, no fitting issues at all and no need for filler! Enjoy!! *Military*

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MAINTENANCE MANUAL

The Stridsfordon 90 IFV



The Stridsfordon 90 IFV

THE STRIDSFORDON 90 OR CV90, IS A FAMILY OF SWEDISH TRACKED COMBAT VEHICLES DESIGNED BY SWEDEN'S

Defence Materiel Administration, FMV, Hägglunds and Bofors during the mid-1980s and early 1990s and entered service in Sweden in the mid-90s. The CV90 platform design has continuously evolved in steps from Mk.I to current Mk.IV with advances

in technology and in response to changing battlefield requirements. The Swedish version of the main infantry fighting vehicle is fitted with a turret from Bofors that is equipped with a 40mm Bofors autocannon. Export versions are fitted with Hägglunds E-series turrets, armed with either a 30mm or a 35mm Bushmaster autocannon. Developed specifically for the Nordic sub-arctic climate, the vehicle has very good mobility in snow

and wetlands while carrying and supporting six to eight fully equipped dismount soldiers. Other variants include Forward Observation, Command and control, Anti-air, Armoured Recovery, Electronic Warfare and so forth. Various customer requirements have led to several variants of the CV90, where major differences are in survivability and electronic architecture. Higher protection has led to higher kerb weight; the vehicle's combat weight has





THE CV90 CAN BE ALSO FITTED WITH CAGE ARMOUR, WHICH PROVIDES PROTECTION AGAINST TANDEM-CHARGE AND SHAPED CHARGE WARHEADS

risen from twenty-three to thirty-five tonnes. However, with increasingly more powerful diesel engines, the power-to-weight ratio has remained approximately the same. The track suspension system has seen upgrades in several stages. The Mk.III version has a digital electronic architecture with several different CAN-buses and digital networks and is the first IFV

incorporating an automatic Defensive Aid Suite which classifies threats and, in automatic mode, can fire smoke and/or the main gun to eliminate or evade targets, as well as instruct the driver on potential threats. The CV9040's basic armour provides all-round protection against 14.5 mm armour-piercing rounds. Armour protection over the frontal arc is classified, but all models

from CV9040B and later are said to be protected against 30mm APFSDS. Some variants, including the CV9030N, can be fitted with MEXAS, a ceramic appliqué armour that provides protection against 30mm APFSDS. This armour kit is intended to provide increased protection against Improvised explosive device, explosively formed penetrator and 30mm calibre armour piercing rounds. All CV90s are fitted with a Spall liner, which covers the interior spaces and provides protection for the troops inside against shrapnel and anti-personnel artillery munitions.





MAINTENANCE MANUAL

The Stridsfordon 90 IFV

The CV90 can be also fitted with cage armour, which provides protection against tandem-charge and shaped charge warheads. The CV90 is fitted with a nuclear, biological, and chemical (NBC) filtration system accompanied by a chemical detector and radiation detector systems. The CV90 also uses heat-absorbing filters to provide temporary protection against thermal imaging (TIS), image intensifier and infrared camera (IR). The vehicle was designed to produce a very low and very compact structure to minimize radar and IR-signatures. With every generation of CV90 there has been an increase in payload and corresponding protection levels. The inherent mine protection levels have risen



substantially to presently defeat the heaviest anti-tank mines. The CV90 Mk0 is powered by a DSI14 engine developed by Scania, which provides 550 horse power (HP) and it can reach speeds of 70km per hour. The basic CV90 has a maximum road range of 320 kilometres, but the latest generation can reach up to 600 kilometres. The CV90 offers quieter movement for improved stealth, greater speed over good terrain, and higher ground clearance for protection against mines and improvised explosive devices. The basic CV90 is fitted with a two-man turret armed with a Bofors 40 mm calibre gun and a coaxial 7.62mm machine gun. The CV90 also carries six 76mm grenade launchers, which are arranged in two clusters of three launchers; the clusters are positioned

on each side of the turret. The grenade launchers are intended for smoke grenades but can also be loaded with a variety of combat grenades. The CV90 export variants are fitted with a Hagglands E-series turret, with more than 600 E30 and E35 turrets delivered.

Since production began in 1993, the CV90 had remained untested in combat until November 2007, when Norwegian Army CV90s from the 2nd Battalion saw heavy combat during Operation 'Harekate Yolo' in Afghanistan. During the first week of November, Norwegian ISAF forces from the 2nd Battalion and Kystjegerkommandoen based in Mazar-e-Sharif, responded to a Taliban attack on Afghan National Army forces in the Ghowrmach district. Having



STRIDSFORDON 90 IFV

Maintenance Manual



been heavily outnumbered by the Taliban forces, the Norwegians used mortars and, in particular, CV90s, to suppress the attack. The operation left an unknown number of Taliban casualties, and many more wounded. The CV90 was later used extensively by ISAF-forces of the Norwegian Army's Telemark Battalion in May 2008, when the battalion came under heavy machine gun and RPG fire from Taliban fighters during Operation Karez in Badghis Province. In February 2010, Denmark sent ten CV9035DKs to Afghanistan in order to bolster

their contingent in Helmand Province. The Danish contingent had suffered numerous casualties since they began operations in the province in the autumn of 2006. The vehicles are from the Danish Royal Lifeguard Regiment, based in the Northern part of Seeland. They are working alongside MOWAG Piranha IIIC, MOWAG Eagle IV, M113 G3DK and Leopard 2A5DK vehicles, all contributed by Denmark, in the Helmand Province. By April 2010, two of the ten vehicles had been hit with IEDs, in both cases protecting the

crew and passengers from personal injury. The vehicles lost two wheels and tracks and were sent back to the manufacturer in Sweden for further investigation. On 7 August 2010, a CV9035DK hit an IED in Afghanistan, killing two soldiers and wounding another three. The explosion was so powerful that the vehicle was turned over. As of the spring of 2011, Sweden operates nine Strf 9040Cs in Afghanistan. Swedish CV90s have seen combat with insurgents on dozens of occasions since and operations continue. **Military**





SURFACE-TO-AIR

Scale 1:35 / Defence Missile System

Going by the BUK

MICHAEL FRANZ BUILDS THE MENG-MODEL 9K37M1
AIR DEFENCE MISSILE SYSTEM

Medium Range Tank

MENG-MODEL

THE BUK SELF-PROPELLED MEDIUM RANGE SURFACE-TO-AIR MISSILE SYSTEM WAS DEVELOPED BY THE Soviet Union and the Russian Federation, and Meng-Model have produced a highly detailed, brand new, 1:35 kit of this vehicle consisting of 685 parts, including both plastic and etched parts. The level of detail is very high, and the moulding quality excellent. The tracks are single links, which have to be mounted on an included jig with separate pins. It is a



9K37M1 Air Defense Missile System

Manufacturer: Meng-Model

Scale: 1:35

Kit Type: Plastic injection moulded with etch

Kit Number: 014



MENG-MODEL HAVE PRODUCED A HIGHLY DETAILED KIT OF THIS VEHICLE

AIR DEFENCE MISSILES

Going by the BUK



time-consuming task and some glue was necessary to keep the links together – but the overall look is fantastic. With the tracks finished and put aside, I began assembling of the hull, the drivetrain, wheels and sprockets and all went very smoothly. The main hull is one huge piece with wonderful surface details. All of the doors, hatches and covers are separate parts, which have to be mounted on the main hull. The exhaust system needs to be installed from the inside before putting the lower- and upper hull together. In hindsight it would have been a good idea to paint the inside of the exhaust system in black before mounting the etched mesh on the exhaust outlet - I missed that and had to paint the insides later through the fine grilles. There also a lot of small details to add around the main hull such as lamps, handles, hooks, towing cables, tools and much more. The huge upper unit of the vehicle

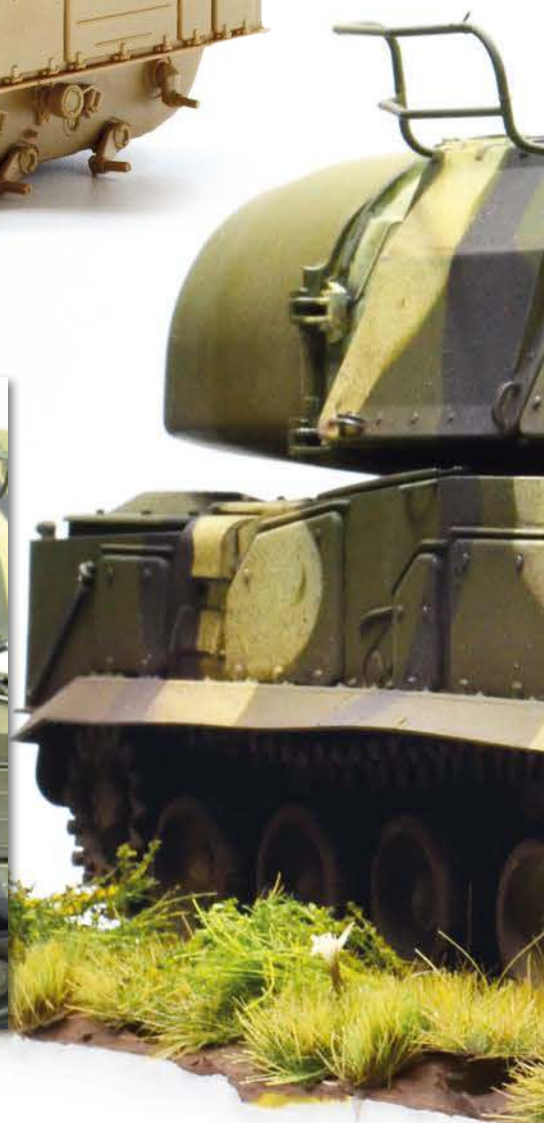


SURFACE-TO-AIR

Scale 1:35 / Defence Missile System

is assembled in the same way as the lower body – adding all the doors and hatches, as well as further covers to the main part of the superstructure, then adding all other details and parts to it. The starting ramp for the four rockets could remain movable, but I glued it position to avoid any damages when moving it around later. All the pipework for the rocket launcher is included as flexible plastic parts, which also fit perfectly. Finally, there are the four rockets, which need to be assembled – unfortunately these consist of of two halves, so it is necessary to use some filler and sand the seams, otherwise you will see the small edges along each rocket.

The painting process began with Vallejo Black Primer as this gives a very smooth surface and the colour is a fantastic base for creating some shadows.



AIR DEFENCE MISSILES

Going by the BUK

I used a light grey/yellow mix for painting the light areas of the camouflage. Then with Blu-Tac sausages, I masked-off the camouflage areas before adding the Vallejo Green and Black respectively. I chose an Olive-Green colour for the cover of the radar unit and painted all the small details with a fine brush.

The tracks also received a black base shade before being airbrushed with AK Interactive Track Primer, and the I then weathered them with different washes and earth coloured pigments. Graphite powder was then rubbed on the tracks surface, before mounting them onto the vehicle. The entire vehicle was then dusted with a dark earth brown shade, and weathered with different earth coloured pigments and washes, to give a used look to the vehicle – only the rockets remained 'factory fresh'. I also rubbed some metallic pigments over the corners of the vehicle and added some wet areas and leaking oil. I then added the model to a simple scratch built base. Meng-Model have given us a fantastic kit, full of great details and will be a 'must have' for all fans of modern Russian vehicles! **Military**



The rockets were painted with a light grey/yellow mix for the light areas of the camouflage. Then with Blu-Tac sausages, I masked-off the camouflage areas before adding the Vallejo Green and Black respectively. I chose an Olive-Green colour for the cover of the radar unit and painted all the small details with a fine brush.



AFGHAN HOUSE

Scale 1:35 / M1151 Humvee Diorama

Urban Patrol Humvee

DAWID BRANSKI ADDS THE 1:35 ACADEMY M1151 TO A DEMOLISHED AFGHAN HOUSE DIORAMA

ACADEMY

FOR THIS SCENE I CHOSE THE 1:35 ACADEMY M1151 HUMVEE, WHICH WAS IN FACT THE FIRST 1:35 VEHICLE I HAD BUILT!

The kit is very well detailed and went together easily. For the colour scheme the Hataka Modern US Army and USMC AFV paint set and weathered the vehicle with Ammo by MIG products. For weathering I used their US Modern Vehicles Wash to create depth, and to create highlights I used Summer Soil and Sunny Flesh Oilbrushers. Later some Dry Steppe Splashes Effect was applied on lower parts of hull, using a paintbrush and air from my airbrush, blowing the product over the area to create random splashes. Finally, some Middle East Dust and Sand pigments were applied with medium size dry brush to create a dirty, dusty look.

When I started this project, I thought it would be nice to build a desert base, and after some quick research online I found some interesting photograph of a mud house in Afghanistan, and the idea of a diorama began to take shape. I already had a 12"x12" balsa wood base and found some nice Styrofoam



HUMVEE

M1151 Diorama

THE
ACADEMY
M1151
HUMVEE
WAS IN FACT
THE FIRST
1:35 VEHICLE
I HAD BUILT!





M1151

Scale 1:35 /

The M1151 builds very nicely....

...with some great detailing

I used the Hataka Modern US Army and USMC AFV paint set

pieces to use on it. To begin I cut two large Styrofoam pieces to use as a building wall, then using a sharp knife I cut out doors and windows. Mud houses in Afghanistan commonly use roof and floor support poles, and I recreated these using wooden barbecue skewers, cut to size and pierced them through. I also used similar pieces to create a ladder. I fixed the walls to the base using PVA



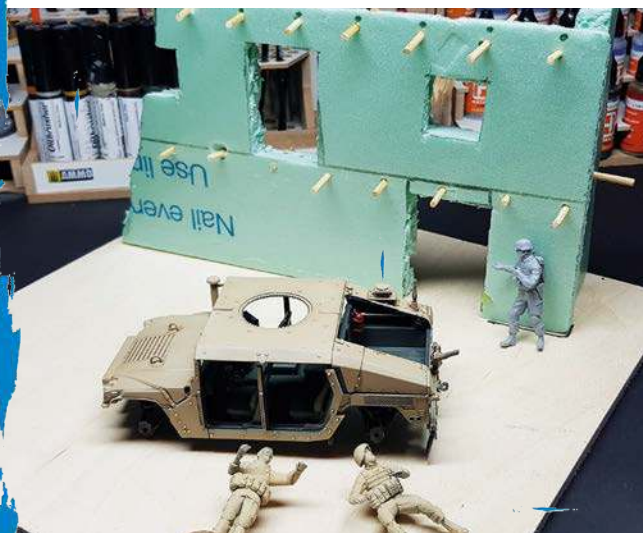
Dry Steppe Splashes Effect was applied on lower parts of hull

glue, but I would also recommend using a hot glue gun, as PVA dries slowly.

I made a lot of not too deep, random cuts on Styrofoam walls using knife for better adhesion of the Sculptamold modelling compound that would be used for the wall texture and base terrain in general. This was very easy to use, and after mixing the powder with water, I applied the compound with spoon, knife and my fingers. This stuff was really good, to work with, as you can move it and shape it for a very natural look. As it begins to dry, this is the best time to put all the building bits together and create a pile of rubble, typical of a demolished building. It's also good time to add all the tyre tracks or foot prints on the surface.



Adding Sculptamold modelling compound



Planning out the scene

HUMVEE

M1151 Diorama



Creating some debris

Once complete I primed the entire diorama with brown acrylic paint, and later added a mix of brown and yellow. I used Modge Podge Glue to cover the surface on the groundwork, as this glue is stronger than normal PVA and its perfect for placing all sorts of scenery and scatter. Here I had some mixed size rocks, Talus medium brown stones and real sand. I then used my airbrush to spray everything with Hataka Desert Tan and painted in some highlights using Desert Sand and dry brushed the building and rocks with brown, adding some scattered pigments that

I used for Humvee here and there.

I also brushed some black pigment onto the windows and door edges to represent explosion smoke marks. I then added a bendable tree from Woodland Scenics, and I cut out few branches to place on the ground next to the tree. I also used Vallejo Acrylic Texture on the tree and painted it with Tamiya Deck Tan and also used a North Afrika Dust Wash and Middle East pigments. The Humvee kit only has two figures, so I added to these with a set from Masterbox, suitably painted.

The finished diorama base



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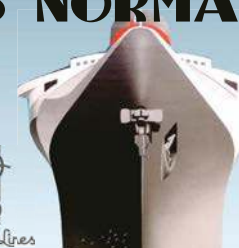
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Black Knight for the UK?

BAE SYSTEMS HAS UNVEILED AN ENHANCED TANK, DUBBED THE 'BLACK KNIGHT', IN THE HOPE THE UK MINISTRY OF DEFENCE



will purchase the upgrades to ensure the British Army has the best equipment possible. This is an upgrade of the Challenger 2 tank, and would be used alongside current tanks, and include a front and rear infrared camera to allow the gunner to focus on one target while the commander identifies others. 'The Black Knight' will also be able to detect incoming anti-tank missiles or armour penetrating rounds and automatically launches a counter-explosive to neutralise the threat. It can also identify the source of enemy weapon systems then automatically point the gun at the source.



IN THE NEXT ISSUE

For your April 2019 issue of SMMI, here's just a little of what we have in store!

South African Olifant

Iwan Hughes builds the 1:48 HobbyBoss kit

An Oddball

Matt Edwards builds the 1:35 Dragon Panzer IV with 88mm FlaK

Real to Replica

Julian Conde takes a World War II photograph and recreates the scene in 1:35

Wiesel Shooter

Ray Deakin builds the 1:35 Revell Wiesel 2 LeFlaSys Ocelot

Mobile Command

Robin Gilby builds the 1:35 ICM Sd.Kfz.251 Halftrack

A Little Lynx

Francisco Gomez builds the 1:35 Mirage Hobby Luchs

AC/DC

Dean Cavey builds the 1:35 Dragon BRDM-2/3

Maintenance Manual

K21 – South Korean IFV

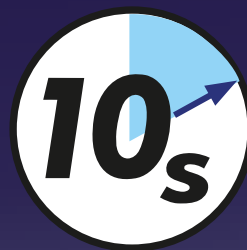
Plus much, much more, as well as our usual news and previews coverage!



Fantastic plastic partners!

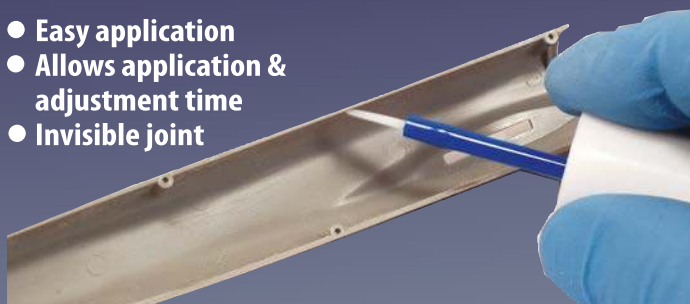


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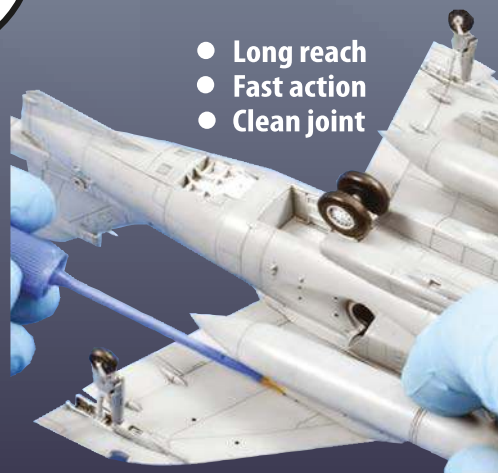
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